THE AMERICAN RIFLEMAN

ECHNOLOGY DEPT.

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"THERE'S NO MORE POWERFUL AMMUNITION IN THE WORLD THAN PETERS HIGH VELOCITY"

says 'DOC' PETERS

Peters High Velocity
BIG GAME CARTRIDGE
with Inner-Belted
Soft-Point Bullet

What every hunter should know about PETERS HIGH VELOCITY *big game cartridges*

"Get extra power, extra smash at long range to bring down a powerful buck or any medium or big game! Ask your dealer for Peters High Velocity big game cartridges with the special Peters Inner-Belted soft-point bullets. The construction of these bullets assures uniform bullet expansion at all hunting ranges, and prevents disintegration on impact. In addition, Peters High Velocity big game cartridges have Rustless non-corrosive priming and extreme accuracy. Peters Inner-Belted soft-point or hollow-point bullets are available in limited quantities in popular calibers. Selected Peters center fire cartridges are also supplied with metal case bullets, protected-point expanding bullets, and regular soft-point and lead bullets.

"Ask for Peters High Velocity! Size for size—for *any* make of gun—*there's no more powerful, more dependable sporting ammunition in the world!*"

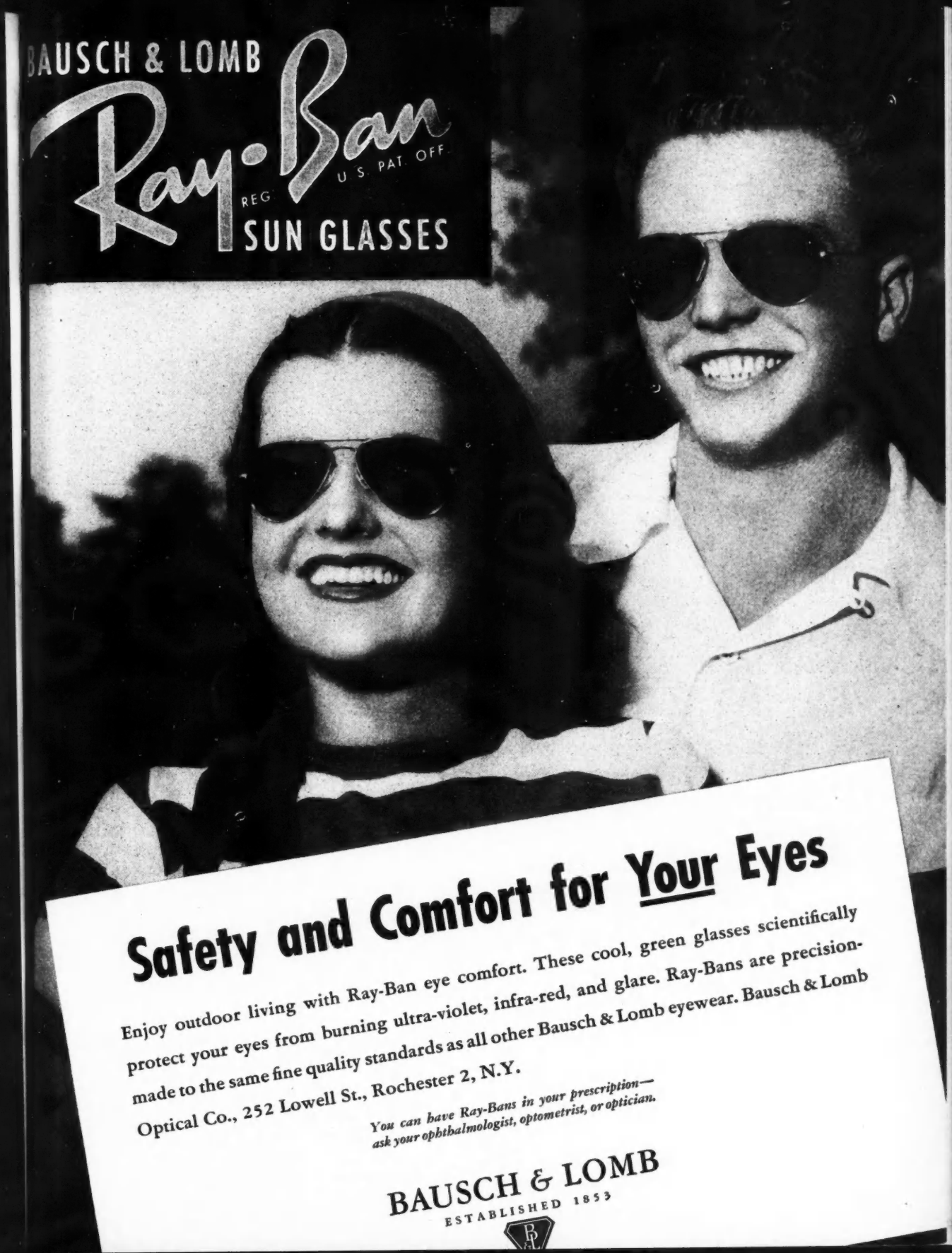
PETERS CARTRIDGE DIVISION
Remington Arms Company, Inc.
Bridgeport 2, Conn.

"High Velocity," and "Rustless" are Reg. U. S. Pat. Off. and "Inner-Belted" is a trade mark of Peters Cartridge Division

Serrated jacket of Inner-Belted bullet with its thick mid-section assures uniform expansion

PETERS
PACKS THE POWER

DU PONT



Safety and Comfort for Your Eyes

Enjoy outdoor living with Ray-Ban eye comfort. These cool, green glasses scientifically protect your eyes from burning ultra-violet, infra-red, and glare. Ray-Bans are precision-made to the same fine quality standards as all other Bausch & Lomb eyewear. Bausch & Lomb Optical Co., 252 Lowell St., Rochester 2, N.Y.

You can have Ray-Bans in your prescription—ask your ophthalmologist, optometrist, or optician.

BAUSCH & LOMB

ESTABLISHED 1853

THE MAKING OF
Marlin
GUNS
Marlin brings to sportsmen, through this series of advertisements, interesting facts on gun-making...to enhance appreciation of fine sporting firearms and to encourage their thoughtful handling and care.

Removing Marlin 39-A receivers from furnace after hardening heat

Heat-Treating

Before heat-treating was discovered, steel was held in little esteem. The magic wrought by heat and quenching, however, transformed steel into the metal most useful to mankind. Long a guarded craft secret, heat-treating of steel has become a science—especially in the last half century, as new instruments gave men insight into the metal's structure.

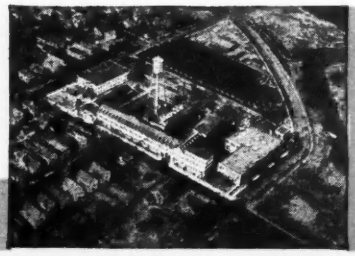
Steel can be hardened or softened almost at will, by various heats and quenches. It is worked "soft" to save time and cutting tools. It is hardened for high tensile strength and wear-resistance. Carbon content and alloys, plus scientific heat-treating, determine the final qualities of steels and their suitability to specific uses.

The Marlin Model 39-A receivers photographed above are "cooked" in a molten bath of hardening salts. Orange-red hot, they are quenched in water. After the quench, they are "drawn" or tempered in another "heat" at lower temperatures. As a result, these vital parts are amazingly tough and durable. Scientific heat-treating of parts for strength and wear-resistance is standard procedure, even in the least expensive Marlin Guns.

★ ★ ★

REPRINTS *of advertisements on the Making of Marlin Guns will be sent* FREE *to sportsmen on request.*

Be sure to see the latest Marlin guns at your dealer's



The Marlin Firearms Plant at New Haven

THE
MARLIN FIREARMS
COMPANY

NEW HAVEN, CONN., U.S.A., FOUNDED 1870

A SMALL FRIEND YOU CAN REALLY TRUST

The Smith & Wesson 2-inch — Square-Butt Military & Police Revolver

There's a warm spot in the hearts of thousands of detectives and plain-clothes operatives all over the country for this little gun which has proved itself a fine companion in a tight spot many and many a time.

Short-barreled version of the world's largest-selling revolver, the 2-inch M & P's small size makes it easy to conceal and gives you lightning-fast handling qualities. Yet its 28½ ounce weight and hand-filling Magna grips absorb the recoil of the powerful full-charge 38 S & W Special cartridge with comfort.

And with the 2-inch M & P you get a gun you know you can really trust because it has all the 14 Famous Design Features that have earned Smith & Wessons their world-wide reputation as the most reliable sidearms ever built.

Shipments have now started though it's still going to be some time before production can catch up with the tremendous demand. If you've been waiting for one of these great undercover guns, ask your dealer to put your name on his waiting list now so that you'll be in line for one of the first he receives.

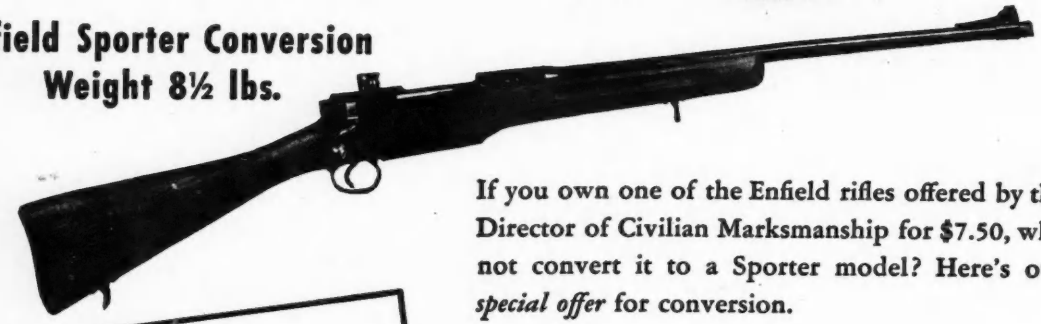
Smith & Wesson *The Thoroughbred of the Handgun World*

SPRINGFIELD 2, MASSACHUSETTS

Convert your $7.50 Enfield to a SPORTER

FOR ONLY $48.50

Enfield Sporter Conversion
Weight 8½ lbs.



If you own one of the Enfield rifles offered by the Director of Civilian Marksmanship for $7.50, why not convert it to a Sporter model? Here's our *special offer* for conversion.

COMPLETE CONVERSION

- Shorten barrel to 24" (or 22" if specified) and crown muzzle; remove ears and Enfield rear sight.
- Furnish and install Lyman ramp band front sight, and Lyman #48 rear sight.
- **OPTIONAL:** Instead of front and rear sights, we will furnish and install Redfield, Jr. scope mount, if specified.
- Prooftest and check headspace; polish and blue all metal parts; polish bolt.
- Cut down issue stock to sporter; refinish, varnish and install front sling swivel.

BASIC CONVERSION PRICE **$48.50**

Check here ☐

If you want a target model barrel, or a different caliber, we will

- Furnish and install new Johnson sporter barrel target model (24-inch), calibers .257, .270 or .30-'06.

PRICE (*including basic conversion*): **$74.75**

Check here ☐

BARREL and ACTION ONLY

If you prefer to do the stock work yourself we will do all the barrel and action work as outlined in the panel on the left for

PRICE: $36.50

Check here ☐

OTHER ATTRACTIVE OFFERS

MUZZLE BRAKE — Furnish and install Johnson Muzzle brake — improves accuracy, 40% less recoil

PRICE: $9.00

Check here ☐

BOLT — Alter Enfield bolt to cock on opening

PRICE: $12.00

Check here ☐

Write for our price list for converting Springfield and Mauser rifles; also for general custom gun work.

Use this ad as your order form. Check ✓ work you want done in boxes above—forward this ad with your rifle to us. The number of my rifle is

.....

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The
AMERICAN RIFLEMAN

Official Journal of the National Rifle Association of America

VOLUME 94 NUMBER 10

OCTOBER 1946

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From the Editor:

The Gallup Polls of public opinion or Hooper ratings on radio, or a dozen other techniques of "sampling," are now accepted as yardsticks of likes and dislikes among millions. A few weeks ago we here at RIFLEMAN headquarters decided we should do some sampling of our own, of RIFLEMAN reader tastes. Our 188,000 readers (another new all-time high this month) should have some pretty definite likes and dislikes about their hobby of shooting. What interests them most, and therefore (so far as we are concerned), what do they want to read about? So we started to lay out a questionnaire. It should be simple, with only a few questions. Chiefly, why did Mr. Average RIFLEMAN Reader subscribe in the first place? What is his background for an interest in shooting? Then how can we keep that interest alive and active and enriched?

So we started a classification, but this is how complicated it became, all of which proves the wide range of interests within this field of guns and gunning.

We started with the hunters—rifle, shotgun, pistol; big game or small game, upland or lowland. The target shooters—service rifle, small bore, pistol; trap or skeet. The "plinkers"—not seriously competitive, just having fun with a gun. . . . There's a great deal of overlapping interest here, but probably one of these classifications is uppermost. So it is with what we might call the "handling" phase of the game. There's the home workshop, where you work in wood or metal or perhaps leather. There's remodeling, engraving, bluing, improvising a "wildcat" . . . and there's reloading. This gets you into ballistics, so you study up on that, or perhaps you were always intrigued with physics. Or perhaps your closest association with the game is in collecting, professional or amateur. And it may be of the really old, the antiques, or merely the almost obsolete guns. Black powder still intrigues you. It may be you don't do much shooting; you're primarily an organizer. You like to see the club really active and functioning; for the most fun for the largest number. You're interested in junior programs of recreation and training. For the entire family of RIFLEMAN readers, there's protection against anti-gun legislation.

Well, when you start to put those interests down in black and white, you see what we mean about turning out, each month, a well balanced issue. We'll have to know our percentages . . . our special reader interests . . . and so, one of these fine days, the questionnaire in your mail box. And we hope you'll give us the answers and return it. Meanwhile, we're reading hundreds of manuscripts, looking for the ones we think you'll like.

COVER

Nothing we've seen in a long time has given us as much of the feeling of Autumn and its hunting thrills as has this Kodachrome . . . and the fact that an alert cameraman was there to get it, makes it a one-in-a-million cover. The shot was made by Hollywood photographer John Byron, while on a pheasant hunt at Bishop, California. Exposure was a 50th at f.8, with an 85 mm. Sonnar lens on a Contax 35 mm. camera.

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"Gravy Train"

"WE MIGHT ASK ourselves at this time if we are to benefit one group of Americans at the expense of another with compensation they do not deserve. I question whether any such devices would result in eventual gain for the veteran.

"With a singular exception of the disabled we should not ask the question of how we should benefit the *veteran*. Rather we should ask ourselves how we shall benefit the *Nation*. The veteran will find that his ultimate interests are precisely the same as those of the Nation.

"There is no gravy train a veteran can ride without eventually paying his fare."

It is unfortunate that there are not more public officials with the moral courage displayed by General Omar Bradley when he made the above statement to the national convention of the Veterans of Foreign Wars in Boston. Paraphrase those wise remarks ever so slightly—

"We might ask ourselves at this time if we should attempt to benefit *any group* of Americans at the expense of another group. I question if any such devices would result in eventual gain for *anyone*.

"With the exception of the disabled we should not ask the question of how we shall benefit *one group*. Rather we should ask ourselves how we shall benefit the *Nation*.

"There is no gravy train *anyone* can ride *without eventually paying his fare*."

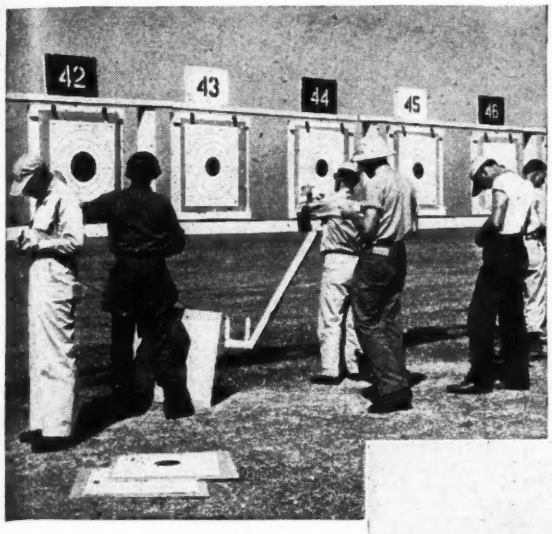
Every American who is not a candidate for admission into an institution for the care of the mentally disabled knows that statement to be a fact. Why are so many disregarding it now.

It is generally true that man can get whatever he wants *if he is willing to pay the price*. The price may be sometimes paid in cash. More often it must be paid in more precious things. The price may be broken health or warped mind. It may be a ruined reputation, the loss of family and friends. Not uncommonly, man has gotten what he wanted at the cost of the destruction of the very Nation which gave him what he sought—and so has lost it all in the wreckage. This, indeed, is the common history of nations. No need to seek beyond the pages of current newspapers for proof.

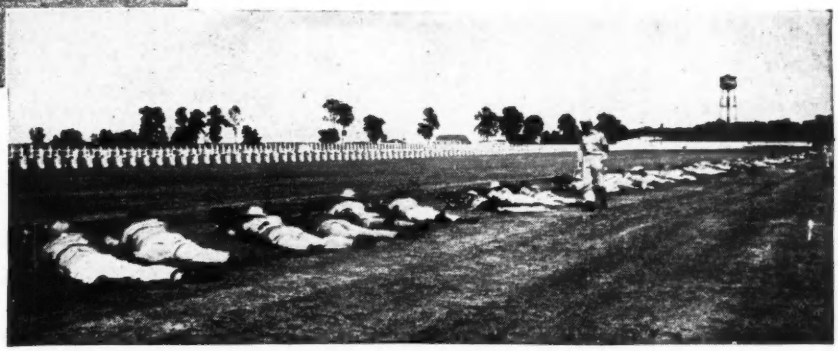
No democracy has ever permanently survived the selfishness of its own citizens. That, in effect, was what Omar Bradley told the veterans at Boston. Who else among America's leaders has the courage and common sense to repeat that simple statement? What American political leader, labor leader, farm leader, financial leader, industrial leader has the courage and common sense to tell that simple fact *to his own people*? And having told them, to then *act* on that premise?

There is the challenge! How many will accept it?

Remember, my friend, whoever you are, whatever your position, there is *no* gravy train *anyone* can ride without eventually *paying his fare!*—C. B. L.



Another firing of the National Matches is on the books . . . the 62nd time the great gathering has been held . . . that postwar dream session at Camp Perry that we've waited so long for . . . and with it has come the assurance that the sport has lost no ground during those war years. More people than ever are interested, new faces, youngsters starting out in this fascinating sport . . . Last-minute revival that it was, Camp Perry 1946 was a promising rebirth of the world's biggest shooting carnival . . . a guarantee that, next year, with another year of recovery behind us, and plenty of time to plan, the National Matches will be back full scale. Let's go to press!



THE AUTHOR OF 'ONLY YESTERDAY' BRINGS HIS SERIES UP TO DATE IN THIS STORY OF THE CAMP PERRY PISTOL MATCHES . . .

PISTOLMEN OF PERRY

By LEE ECHOLS

"WE'VE HAD THE DEVIL'S OWN TIME getting experienced Army personnel to run the ranges," Colonel Heddon was saying. "We gave all the boys a little examination. One of the questions was 'What is the difference between center-fire and rim-fire ammunition?' and one of them replied that center-fire ammunition was round and rim-fire was square . . . Reminded me of my early days," the Colonel grinned. "An old Cavalry colonel once told me 'Last week I got two hundred soldiers who'd never seen a horse. This week I got two hundred horses who'd never seen a soldier. Today I got forty second lieutenants who'd never seen either one!' "

The Colonel was kidding. The experienced guidance of Brigadier General Sid Hinds and his capable staff of decorated officers and men, with a smooth operating NRA crew, assured success from the start . . . old Camp Perry was roaring again with the National Rifle and Pistol Matches . . . older than organized baseball . . . older than the Kentucky Derby . . . More shooting than the Battle of Tenaru River, and a whole lot more fun, with the handgun and small-bore men there to shoot it and have it.

Old faces and new, they came from all over the country, its territories, provinces, and mandates to resume again the great game.

Pistol men . . . Los Angeles Police with Slavens, Starkey, Jones, Engbrecht, Perez and Stark, and three boys making their first trip . . . Starkey fresh from his Regional win at San Francisco and Engbrecht hotter than ever . . . a living example of the aphorism that pistol shooters last longer than wrestlers . . . the New York Police in full strength . . . Fegan explaining to Weldon and Walsh, "Yuh bend over with your knees. That's the fundamentals of ice and roller skatin'. But pistol shootin'? There aint no fundamentals. About the time you think there is and you've got 'em, there ain't and you haven't." McKee and his gang from the Metropolitan Police. Driver and his from Detroit . . . Reeves back from the Marine Corps and going so good there's a movement afoot to have one big match open to everyone except him . . . Big Alfy Hemming . . . good as ever despite a freak accident which occurred when he fell from a ladder during a house painting

—or Peeping Tom—maneuver, which broke most of the bones in his frail body, including the one in his wrist which allowed him to point a pistol . . . He now affects the God-awfullest stance in organized pistol shooting, with his wrist bent straight down and his head bent back like a man waiting for a shot of nose drops . . . But look out. He's dangerous.

Paul Spavor and Stubitts and Yannick and their salty crew from St. Louis and big burly O'Connor and his from K.C. . . . And Jesse Woody, the deadliest pistol man in Texas, Regional winner at Austin and recent world record breaker over the National Match Course with his .22 gun . . . He lost it before his gun barrel cooled to the smooth and deadly eye of Harry Reeves, but had it for a while at least.

Memories of Tampa and the great Midwinter . . . with John Flaherty and his West Coast League team arriving with a big hullabaloo and five thousand Cuesta Rey cigars advertising that big match next March . . . Lieutenant Yarborough from Fort Knox with his Army greats . . . Benner, Tumlin and Sparky Kellerman . . . Tumlin back of the line saying "Look at that hand . . . steady as a humming bird . . . Feel that pulse . . . blood pressure up in the picture cards . . . I can't go on the line, I tell you!" . . . Funny little things like that which make a pistol match more than the scores fired . . . I remember some guy from Pennsylvania trying to kick the monkey off his back which had dropped down on him as he drove through the gate at Perry. He was telling about an old Scotch woman who bought an ear trumpet and took it to church. A suspicious sexton looked her over a few minutes, tiptoed up to her and said, "One toot and yer oot!"

A ten . . . nine . . . eight . . . seven . . . and where's that other shot? . . . Must have lost one somewhere . . . that wind was tricky

And all the old gang back on Commercial row . . . Gene Mitchell of Blackinton, who never forgets a name or a face . . . donating twenty-five medals to the McGinley Trophy Match . . . Big Dave Flannigan and flashy Milt Hicks, the Remington-Peters boys . . . Tiefenbrunn of Western and his fine outfit, including Fairweather who has more nicknames than any man I know . . . Hi Standard men with new types of pistols . . . Big Moose Taylor with his tooth paste ad grin . . . A story making the rounds about him concerned a shooter named Manuel from the 12th Precinct Pistol Club of Washington, D. C. At a recent match at Sparrow's Point, Manual asked Captain Harry Dengler of the Treasury Department to point Harry Reeves out to him. The sly captain pointed out Moose Taylor instead and the following day Manuel came up to Dengler and said: "I don't get it. I've smoked a box of cigars and drunk a crock of popskull just like I've seen him do, and I still can't shoot in the two-nineties!" . . . Frank Kahrs . . . Harry Lidstone . . . People we've known so long . . . Big tall Walt Day of the Seattle Police. Six feet, eight inches . . . showed up with a hearing aid with the "gozinta" hanging down on his stomach. Said he was damn tired of having to lean way over to his belt to listen to what we all had to say and figured we could just talk into that little box and he'd get it telephoned up to him through the little dingus plugged in his ear without leaning over.

Evalyn Harger . . . Marksman Regional Winner from Tampa, the most genuinely enthusiastic pistol shooter ever seen at Perry . . . Rode a motorcycle up to the Nationals. She's been shooting three years and loads her own ammo with all the powder the traffic will bear . . . When one of them goes off Evalyn shakes all over . . . She's the only woman in the Tampa Auxiliary Police and it took her four days to get to Perry on her motorcycle . . . And speaking of women shooters . . . Marion Bushey and her gang of New York City policewomen . . . The first all-woman police team ever to shoot at Perry . . . Handy with the repartee and snappy retort as Johnny Broderick of the Broadway Squad . . . The rest room signs at the pistol range . . . Pistoleers and Pistoleeresses . . . No chance of going wrong there.

McIntyre of the Marines . . . Said his range finder was faulty and his only recourse was to wave his gun past the target and pray . . . Jack Ackerman of Dearborn . . . taking home the McGinley Trophy, and Starkey of Los Angeles winning the Clark with one of the best scores of his life . . . and Smitty Brown shooting the shot to dedicate the range . . . Colonel Heddon took all bets his shot would be a ten and Smitty stood there leaning into the wind and rain with about a thousand people looking on. He squeezed one off that he thought ought to be in the money but when he scoped it he swallowed twice and whispered hoarsely, "It's a high six." He didn't get through to Colonel Heddon, who demanded over the loud speaker that Smitty speak up. "What did you fire?" he asked. Smitty held himself up by his gun stand until he could get hold of himself and then weakly staggered from the range, still hoarsely whispering to no one in particular, "It's a high six."

Big nights in the hutments . . . Charley Funderburk from Tampa, so long and tall he'd pass for a thermometer if he'd wear a red tie, telling about how much trouble he's had with people getting his name mixed up . . . "I'm down in the Gilberts," he complains. "I'm dodging snipers and flack and making mail call every day but nobody ever writes to me. Finally, I get a letter. It's been rerouted until I can hardly make out where it's from. And how do you think they write my name? Be Jesus they call me Feenderbeek." He opened another bottle of grape soda. "And to cap the climax," he says, "the letter starts off 'Dear Poultryman:' and I never saw a

chicken before it was cooked in my life!"

Major Harding . . . pistol promotion man for the Seventh Army . . . getting a new fangled hotfoot with a magnifying glass in the deft hands of one of his shooting mates from the Fort McPherson Pistol Club.

The Colt Trophy . . . One of the big Perry team matches . . . Los Angeles grabbing it up with a good score and pulling a deal unheard of, by all going clean slow fire . . . Emmet Jones carrying the banner.

And speaking of Jones, he went to war from the Homicide Squad of the Los Angeles Police Department . . . The rest of the Violent Death Squad boys and I used to write to him when I'd visit them. He was in New Guinea and we'd tell him if he'd grow some sort of tropical fungus moss on his head he might know the delights and pleasantries of again associating with California feminine beauty on his return to the states . . . We'd intimate that this sort of carryings-on was every day stuff with us. This used to infuriate Emmett and he'd write back and raise merry hell about it . . . Said he was the oldest man in the Homicide Squad and the only one of the whole bunch who was at grips with the enemy. He'd say that it was a measly shame for us to sit back home on our smug complacency and weigh in the sacks on a guy who was so sick of seeing goony birds and Zeros that he was allowing thoughts of drowning himself to idly course through his noggin. He'd say that if our mothers had thrown us away and kept the stork the world would be better off and that if we couldn't write something cheerful to him to call it a draw. He didn't fire his guns for several years . . . And then he came to Perry and rolled a world's record rapid fire out of his center-fire gun . . . Sometimes I just don't know.

Smitty Brown talking about all the research he's instituted trying to perfect some sort of nerve tonic or anti-tension pill which will deaden the reflexes and make a man immune to buck fever without the terrible reaction experienced from the usage of opium and its derivatives . . . Said he'd even resorted to hypnotism once at Quantico when a mesmerist put on a show there and that if it had worked he'd have hired the man for life. He said the whole plan went by the boards, however, when he waltzed out onto the firing line in a state of gaseous, mesmeristic stupefaction, with the hypnotist right behind him stroking his neck and saying, "All tens, boy . . . all tens!" Smitty said he dreamily squeezed them off and after he was snapped out of his trance he found that he'd shot two sevens and one five and had missed the target completely twice . . .

Don Robinson from Maine and Florida . . . going furiously fine in the Clark Memorial until somebody stuck a newspaper under his nose. He read it between strings of rapid fire and then stepped up there and apoplectically shot four eights and a seven . . . It told about the stock market slump and Don wasn't only holding his thirty-eight, but the bag . . . Moose Taylor carrying a bottle around with him labelled: "Arterial Embalming Fluid." Maybe that wasn't what it contained . . . It was too scary for me to experiment with . . . Voelbel from New York . . . won the twenty-two aggregate with a gun borrowed a few minutes before the first match . . . Tom Imler from Phoenix . . . broke his front sight off during a timed fire match . . . went ahead and shot it without one and did better than usual.

Big, genial Harry Reeves, back from China duty with the Marines, took the national pistol title for the third straight time

Los Angeles Police . . . stopped off in Detroit on their way to Perry . . . Stark bought a pair of pants which were too long for him. The whole team sent pants out to be pressed and Stark, whose legs are so short he has to stand on his tiptoes to get his hands in his pockets, asked that his be cut down to 29 inches . . . When they came back the whole works were cut down to 29 inches, and if you don't think Jones and Starkey looked funny in theirs you just don't have a sense of humor.

Lew Sanderson . . . just retired from the Detroit Police . . . had a funny tale about an old friend of his up in Northern Michigan where Lew and Hemming go hunting. Lew said he and Al were staying with the old man and they heard him and his wife quarreling. The old man was saying: "I tell you, it wasn't my fault. It was the fault of that trap door underwear." Lew questioned him about it later while they were out in the woods and the old man said his wife had heard what she thought was a thief in the henhouse one night . . . said she ordered him out with the shotgun, in his underwear, to investigate . . . Went on to tell how he'd stuck the shotgun out in front of him and headed out in the night toward the henhouse in his trapdoor underwear . . . Lew said—and by this time he was laughing so he could hardly finish—"The old man told me he was almost up to the henhouse when his liver-colored coon hound slipped up behind him to smell him. He said the trap was down in his underwear and when the dog touched him with his cold nose his shotgun went off and killed two thirds of the old lady's chickens in the henhouse."

Out of the maelstrom of great scores finally emerged Harry Reeves . . . bloody and bruised and kicked around but coming out of it all with the All-Around championship . . .

And Jake Engbrecht . . . shooting at Perry since they drove up in surries . . . chalked up a fiery score to win the National Individual . . .

Scores? You won't find 'em here . . . Look for them in the statistical section . . . This is the Social Column. ♦ ♦ ♦

THE FACES WERE FAMILIAR . . . OLD-TIMERS, NEWCOMERS, KIDS, CHAMPIONS AND ALSO-RANS, RICH MEN, POOR MEN, VETERANS AND TYROS . . . IT WAS STILL CAMP PERRY

RIFLEMAN'S HOLIDAY

By JOHN SCOFIELD

BEING AT PERRY again was like a homecoming. After four years, there was the surprise of seeing the range still there . . . somehow you'd expected changes, and maybe you wouldn't recognize things, but there it was . . . no longer the famous old "two-mile firing line" that you'd seen described in newspapers so often, and Commercial Row was a skeleton of its old self . . . and there wasn't that steady pop and crackle of the .30 calibers . . . but it was still Camp Perry. It would take more than a war to change that . . .

It's the people who make Camp Perry anyway . . . the gang that streams back, year after year . . . plus that growing flood of newcomers . . . names you didn't know when you got there, but you'll never forget them now that it's over . . .

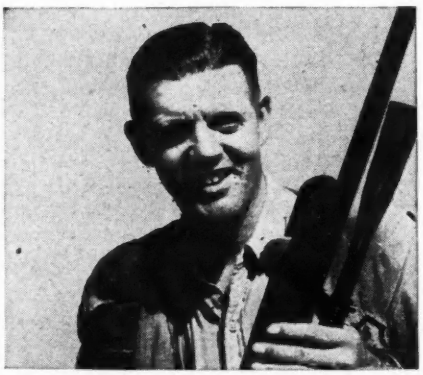
The faces were familiar . . . old timer Eric Johnson, wearing that battered red shootin' cap, batting the breeze with Thurman Randle during the final match of the meet . . . Sam and Irwin Tekulsky . . . Irwin shot the whole schedule in a pair of abbreviated shorts . . . the only one to brave those cool mornings on the lakeside with so much bare skin showing . . . not one of the shapelier sex tried it . . .

Jack Hession and Frank Kahrs . . . old-timers who can call more shooters by their first names than anybody we know . . . word got around that Jack was about to retire . . . and before the day was over there was a long petition, with signatures from here to there, asking Major Jack to stick around . . . he's been helping shooters, one way or another, for years. . . .

Familiar faces . . . Cort Souter and Tom Compere running the range . . . Tiefenbrunn of Western Cartridge . . . Ray Louden and Jack Wark, who've clowned their way through matches and matches . . . Nick Altrocks of the shooting game . . . but it doesn't seem to make any difference in their scores . . . reminds us of Sam Moore, who poured a pint of Old Flubdub down the bore of his pet rifle at one Sea Girt match . . . claimed it wasn't shooting right and that was the only sure cure . . . Lew Bulgrin . . . Wallie Burnham . . . Les St. Clair and Bob Perkins . . . top West-Coasters . . . Al Freeland and Bill Patriquin . . . Max Jensen . . . Ed Moore, who's run the Hearst matches for so long . . . Jack and Jim Lacy, brother team from Winchester . . . Ollie Schriver, who has officiated at international team firings almost since we've had 'em. . . .

And that Camp Perry headgear . . . Charlie Whipple's famed good luck symbol, a battered derby that he always wears to matches . . . and speaking of hats . . . the feminine headgear, Schiapparelli 1908, gracing the noggin of small-borer Sterbutzel . . . often wondered how many of those flossy patecovers he carries around with him . . . every time you see him on the line, he's sporting a different fancy hat . . . goshawfulest of all was a black, veiled creation, worn backwards in one of the team matches, so the veil wouldn't blow between his face and the scope . . . and there were those red plaid hats that always showed you where the Chattaways, husband and wife, were shooting.

Familiar faces . . . big Bill Kennedy worked himself to a frazzle, gardening, before the Nationals, and swore he never felt better in his life . . . and Charlie Hamby's wide, familiar grin. Charlie turned in the high regional score at the Southeastern, and looked like the White Hope of Perry 1946, but something must have happened . . . the popular Atlantan won a couple of matches, but wasn't in the money when the championship cards were added up. . . .



Garrett Moore, the new small-bore champ, who beat the double handicap of a wooden leg and a borrowed rifle to trim a field of the best in the country.

Lanky three-time national title holder Bill Woodring, who used to be billed as a straight-shooting descendant of Dan'l Boone . . . with his attractive wife, Kay. Both of them are veterans of more international teams than you can count . . . Kay almost took the woman's small-bore title, but was euchred out by another three-timer . . . Adelaide McCord, who became the first woman to place three times on the Dewar team. Kay landed six points behind her rival for the feminine title. . . .

Defending champ Rans Triggs, shooting a rifle with an eight-pound trigger pull. He claims it makes no difference, as long as it's smooth . . . guess not, judging from the way Rans crowded the new champ. Rans still uses that tricky Moore-Warner rear sight . . . there are only about a half-dozen of them . . . developed by small-boresmen Sam Moore and Selden Warner . . . both Tom Edison associates, and born inventors . . . neither one showed up at Perry this year. Moore is in California and Warner just stayed home . . . and old-timer Fred Kuhn, spending all his free time doctoring other people's rifles . . . that's sportsmanship, when you go to work on the other fellow's gun, so he can have a better chance of outscoring you. . . .

Overheard during one of the school matches . . . ten-year-old Eli White, Jr., walking off the line with that little cut-down rifle . . . youngest, and smallest, shooter on the range. His dad, taking time off from the pistol matches, was waiting for him. . . .

"Get any in the white?" his father asked.

"I dropped a couple."

"That isn't what I asked you. Did you get any in the white?"

"Yes, sir," the boy said.

"Didn't I tell you I'd whomp you if you got a shot out of the bullseye? What did I tell you that white part of the target is for?"

The youngster's voice was hardly audible. "Toilet paper," he said . . .

And the moonlight trip to Middle Bass Island, where they make the champagne . . . every morning there was a suffering contingent riding it out on that row of white benches back of the firing line. . . . far as we know, almost everyone made one trip, but nobody had the courage for a repeat visit . . . nights at the Bark Inn and the Island House . . . hamburgers at the 2x4 Restaurant in Port Clinton, that's been playing host to shooters as far back as anyone can remember . . . not important features of the matches, maybe, but they help to make a Camp Perry trip what it is. . . .

And seeing the familiar National Guard armory where you make that right turn away from Port Clinton to get back to camp . . . that tank company was Port Clinton's pride . . . wiped out, to a man, on Bataan. Not many towns have lost so many of their sons . . . thirty-one men . . . and those telegrams must have come all at once . . . missing in action, presumed dead. . . .

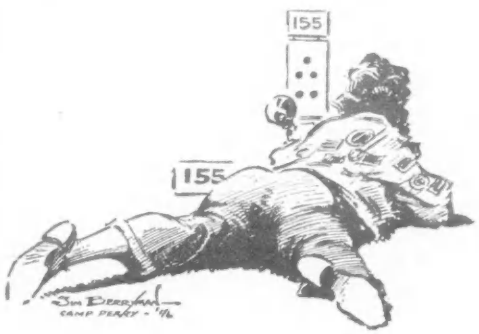
Speaking of Port Clinton . . . blonde Ruth Davis setting a new woman's record in the 100-yard scope match . . . 400 with 32 X's. While she's shooting, Ruth is as cool as a New York traffic cop, but when the prizes were handed out in one of those on-the-range ceremonies, she sailed up to the stand and then got cold feet when General Hinds wanted a few words from her. Ruth is a local girl . . . met her husband on the Perry ranges . . . so, when she topped that woman's record, the Port Clinton paper gave her its biggest streamer . . . LOCAL GIRL SETS NEW WORLD MARK. Wish we could get rifle shooting on the front page that way more often. . . .

You couldn't help wondering where some of the prewar shooters were . . . Minnie McCoy and Flossie Anson, the Akron gals who were always at Perry in those days . . . and the Bokman family . . . Ann and little Butch are at the University of Chicago now, and shoot on the Chicago rifle team . . . Dave Carlson . . . Anna Lou Ballew, the little West Virginia girl who did such amazing shooting in 1940 . . . Tom and Janet Lewis, the best brother-sister act we ever knew . . . Tom was killed in one of those tragic training crashes early in the war . . . Janet was in the service, last time we heard . . . and Doris Dean, who still holds a flock of women's records. . . .

And there's a new small-bore champ to think about . . . Garrett Moore of Washington, Pennsylvania.

Arthur Cook, eighteen-year-old sensation of the 1946 small-bore matches. The young Dead-Eye Dick took the junior title, made the Dewar and 400 Club, and generally set the old-timers on their ears—and they loved it!

The newshawks billed him as a rank outsider . . . Cinderellaman . . . actually, Moore made a pretty clean sweep of local matches in his area this summer . . . but had never really been to Perry before. He came in for a day or two in 1939. Moore didn't even attend the Eastern Regional this year . . . preferred to go fishing in Canada instead. One of those dark horses . . . out of nowhere. Moore was a little amazed at the whole thing . . . said he wanted a place on the Dewar team mighty bad, but didn't have any idea of taking the national title back to Pennsylvania with him. That town must be a champ's stamping ground . . . Moore is a neighbor of former world's lightweight boxing champ Sammy Angott. . . .



The championship race was a funny thing . . . shows you can never pick a winner from the program. Before the matches, Charlie Hamby looked like The Man . . . 'way up in regional scoring . . . but once the matches were under way, it was anybody's race . . . for a while Fred Kuhn in the lead . . .

Rans Triggs, defending champ, dropped back early in the matches . . . and then Bill Schweitzer ahead . . . Kuhn and Snowhill still in the running, but Moore crawling up on them all . . . a story-book dark horse . . . only one point behind Schweitzer at the halfway mark. By the time the last match went on the line, Moore was up in the clouds . . . five points ahead of the field.

Tournament jitters almost got the new champ . . . on the range that morning without breakfast because he wanted to spend the time on his bunk, dry firing . . . his stomach doing flip-flops, Moore dropped points on his first and third shots in that last 50 meter scope match . . . but steadied down and punched the rest of his forty shots into the ten-ring to wind up with a six-point lead over Schweitzer . . . who, incidentally, had changed guns halfway over the course . . . that probably gave the kiss of death to his chances for another national title.

Moore's story is almost good enough for Horatio Alger . . . a man who could win the national crown, but who failed four times running to take his own state championship. The thirty-nine-year-old auto repairman borrowed a gun from his friend Bob Gideon . . . Gideon was disgusted with it, wanted to sell it and quit the shooting game . . . Moore had a new rifle of his own, but it wasn't working right . . .

And, incidentally, Moore is the first one-legged shooter we know of to really go places . . . lost it as a child, as the result of a football accident. He wears a wooden leg, one of the old-fashioned kind, and you can hear it creak when he walks beside you. He isn't sensitive about that wooden leg though, and when he is on the line and his trouser leg hikes up, you can see it gleam in the sun. Moore wouldn't give up sports after he lost it . . . went right on shooting, at first on crutches. Francis Stann, Washington columnist who came to Perry for the matches, was talking to Moore . . . "Even after I lost my leg, I hunted for years," Moore said, "using a crutch under my left arm. When I'd hunt, I'd put the stump on the crossbar and shoot. I could see the crutch bend with every shot. I b oke more damn crutches that way until I got this leg." . . .

Swellest story we heard at Perry . . . told us by Russ Wiles, Jr. . . . Jarvis Ter Haar, former Air Forces first lieutenant and P-51 pilot, came out of the war completely blinded after his plane was set afire over the German lines . . . flames swept through the cockpit and burned his face terribly . . . unable to see, Ter Haar brought his plane in . . . somehow managed to land it behind our lines. Since then his face has been completely rebuilt by plastic surgery and he's shooting again . . . qualified as a Master since the war. His iron sight vision is not too good, but he still gets along better than most of us . . . not many people could overcome that sort of a handicap to get back into their favorite sport . . .

Whatever the place Perry 1946 earns in the annals of rifle shooting, there will be one standout story . . . it was the kids who stole the show . . . those youngsters are about the best news this shooting game has had for a long time.

Young Arthur Cook, as an example . . . eighteen years old, though he looks a small thirteen . . . who came to Perry with the worst case of hay fever we've seen, and the avowed determination to take home the national junior crown before he was too old to qualify. Cookie realized his ambition without much trou-

ble . . . and in one match or another outshot practically every hot-shot and old-timer on the range . . . ahead of Charlie Hamby and Carl Frank, for instance, in the American Dewar, with a score that gave him a membership in the exclusive 400 Club . . . ahead of everybody except Schweitzer and Triggs when he teamed with fourteen-year-old Roy Oster to take second in a doubles team match . . . on the International Dewar team and came through with a 399 . . . and a two-point lead over the hottest junior competition that ever showed up at Perry, to win that junior title.

Cookie's story is probably typical . . . started shooting indoors when he was eleven . . . outdoors in 1943. At Llanerch, Pennsylvania, last year, he won his first open matches, two of them . . . but didn't enter the aggregates. The kid was some shocked when he added his points to find that he'd have won the first of them, and landed second in the other.

Cookie has taught some of the old-timers a few tricks, too . . . in that doubles match, when the wind was squirming in from every direction, Cook's targets came to the scoring house . . . one point down on the record bullseyes, and with thirty-six shots, some of them pretty wide, on the sighting bull. "I had plenty of bad ones," the kid explained, "but they're all up there in the sighter." . . .

How Cookie shoots with that case of hay fever is just one of those things . . . His nose runs constantly, and his eyes water as he suffers with every allergy from ragweed pollen to ordinary pillows. In almost all of the iron sight matches, Cook fired his strings in three to five minutes, to keep ahead of complete optical disability . . . his right eye was so bad by Sunday morning that he threatened to fire the Dewar left-handed . . . he didn't, but our bet is that he could have . . . and still have turned in that 399. . . .

That other eighteen-year-old who landed on the Dewar . . . John L. Kelley of Fort Worth, who came in second among the juniors and led the Expert Class in a flock of matches . . . pulled off of an Army transport so he could compete in the Perry matches. Kelley had a bad case of the jitters as he waited, early Sunday morning, for the Dewar firing . . . as the Fort Worth youngster went up to have his trigger weighed, he identified himself. NRA's Fred Moulton asked, "Are you one of the New England Kelley's?" The boy snapped back, with a heavy Southern accent, "No, suh! Texas," and went to his place on the line . . . that broke the tension, and in spite of a bad cartridge that gave him a wide six o'clock eight on his first shot, the boy steadied down and turned in a 396 . . . good shooting in anybody's scorebook. . . .

And the other juniors at Perry . . . Audrey Bockmann, fifteen . . . Dick and Howard Waters, thirteen and seventeen . . . Audrey Richard, eighteen and already a tournament veteran. Remember those names . . .

Altogether, it was a good year at Perry . . . an auspicious rebirth for a sport that had to go into retirement for four years. Next year . . . hell, maybe I'll compete, too. ◆ ◆ ◆

HERE'S A WAY TO GET THAT EXTRA BIG-BORE RIFLE FOR THE ROUGH JOBS— AND FOR LESS THAN TEN DOLLARS!

An M17 KNOCKABOUT

By L. E. CAPEK

A GOOD GUNSMITH can make a beautiful rifle from an M1917 Enfield for a hundred frogskins, but it takes a lot of figuring to do it yourself with nothing but a little elbow grease. It is my opinion that, from the average hunter's point of view, there must be at least three qualities in the rifle he owns and uses for big-game hunting. The caliber must be heavy enough for the quarry. It must be rugged, dependable, and of reasonable weight. The last requisite is that it should not be necessary to mortgage the homestead to pay for it.

When the D.C.M. sent my latest M17 to me, I immediately took it to my shop. For an hour or so, I sat and looked at the rifle and tried to decide what to do to it. Then I approached the problem from the point of view of the purpose this rifle would serve in my collection. Of all the heavy rifles I have, there was none that would serve as a knockabout. I certainly wouldn't take my M70 Winchester and toss it in the truck just to have a gun handy in case a four- or five-pointer should pop up in the course of the day. Sure, I could take my Sedgley with its custom stock and wrap it in two or three blankets, but I'd still feel bad if it were scratched or dented. Neither would I leave my Remington in the barn just to have around if a coyote showed himself unexpected-like. Yes, I had a definite place in my life for a high-powered knockabout.

With this in mind, plus the determination not to spend a cent on parts, I commenced surgery. The style that suggested itself to me was a Mannlicher-type stock. While my finished job does not compare with that of a professional job, neither does the cost.

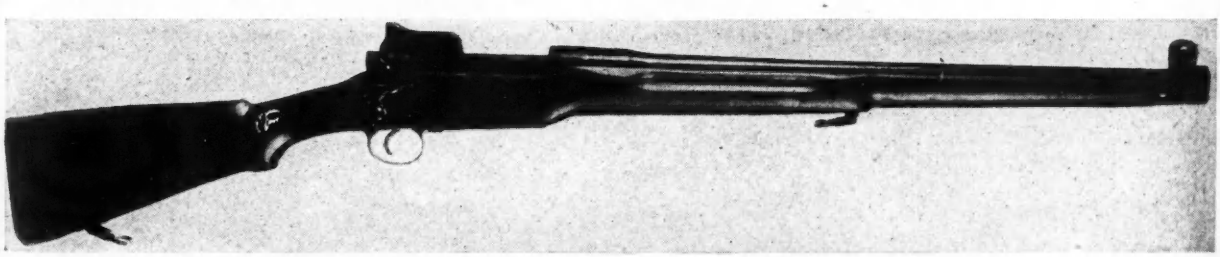
From the pictures, you will see that the M17 barrel was cut to the end of the stock, which made it approximately twenty-two and one-half inches long. The bayonet lock was used as the muzzle guard by grinding off the lug and cutting away the back top strap. The wood was reshaped somewhat by the use of a rasp, which greatly reduced the clumsy bulk of the issue stock. The barrel was chucked into a lathe and the same taper was put on the end of the shortened barrel, so that the front sight band could be sweated back on. The muzzle was also crowned in this operation. The entire rifle was then bedded very carefully into the stock and the barrel made 100 per cent free floating. An old front swivel was used in the fore-end as the regular barrel band swivel could not be used. While the stock was being given countless applications of linseed oil, I polished and blued the bolt, barrel, receiver, and all the hardware.

The final result weighed about one pound less than issue and the appearance and feel were greatly improved. The first test grouped within three inches at 100 yards from bench rest, and with a few further improvements in the bedding and a little experimenting with loads, I'm sure this will be reduced.

The net cost of the "knockabout" rifle was about ten dollars in cash, and approximately nine hours of loving labor. (What gun bug doesn't love to work on his shooting tools!) It is my further opinion that the rifle will stand all the abuse that a woodsman subjects his guns to, and still do as good and as accurate a job as is necessary.

The sight guards were, of course, purposely left on to protect the sights from all possible damage. You say this is not necessary and that they look like hell. Well, I'll never forget one hunt that was ruined because my rifle fell on the rocks from horseback height and both sights got bent. It wasn't looks I worried about that day. It may never happen again, but if it does I'm positive that my "knockabout" will take it and come up shooting just as accurately as before. Don't misunderstand this to mean that our fine commercial rifles are too delicate and should be used only as show pieces on a comfortable range, because it doesn't. Our American sporting rifles are indisputably the world's best. It does mean, however, that you can look at this from the standpoint of an extra big-bore heavy rifle that you can own for about ten bucks and kick around without remorse. It's a swell rifle to keep in the trunk of your car on any legal trip to the woods or, if you live in the open spaces, to have handy in some spot where you would not chance weathering your commercial pride and joy. ♦ ♦ ♦

The author's DCM Enfield, after a few hours of basement remodeling



WOODCRAFT for Riflemen

By FRANCIS E. SELL

THE AVERAGE HUNTER'S biggest handicap is the load of misinformation which he gleans around camp. These myths, which started with the tradition of the silent, stalking Indian, are added to each autumn by amiable old woodsmen spinning their yarns around the evening fire. These paragons of woodcraft can, according to their own stories, just about read the life history of a buck from one track.

"THERE IS NOTHING SO MYSTERIOUS ABOUT WOODCRAFT THAT THE AVERAGE ONCE-A-YEAR HUNTER CANNOT ACQUIRE ALL HE NEEDS . . . AN ACCURATE KNOWLEDGE OF STILL HUNTING WILL PAY BIG DIVIDENDS"

Once, during such a session, I heard a hunter call a guide on this esoteric ability to read so much from a set of prints. All the hunter did was to ask the guide just how so much knowledge could be gained from looking at one set of prints, and if they shouldn't be read more or less in reference to the cover. The guide almost swallowed his cud. I think it was the first time in his life that any hunter had ever questioned his fund of woods lore. The hunter, however, had touched on a spot in woodcraft which has needed probing for many years.

There is one premise which an inexperienced rifleman can safely take as a starting point in studying woodcraft. It applies to still hunting of deer or any other big-game animal, for that matter. This is it: no matter how skilled a woodsman may be, there is never any more evidence in tracks and sign which he has under observation, than that which would meet the eye of the inexperienced hunter. The difference lies in the deductions which can be made from the evidence.

If the tracks under observation show all the unmistakable signs of having been made during the early morning hours, this evidence is considered in reference to what would logically have taken place at that time. This being a feeding period, it would require no mastermind to deduct that, more than likely, the game was either going to, or returning from the feeding ground. This in turn is easily answered by knowing the type of feed in the territory in which the tracks were made. Was the game moving toward a logging slash where there is an abundance of browse? An acorn-bearing ridge? Were they returning from such cover? In either event it should require no great insight to deduct two bits of information which the rifleman would find invaluable in hunting that territory. The evidence would show him where the deer were feeding, and also where they were probably bedding down for the day.

The only thing which might confuse this evidence would be something which would disrupt the game's routine. Another hunter could have put the game out. But in this case, if the deer was moving faster than a walk, the print would be more clear-cut, show the speed with which the game had moved, both by the trail disturbance and the grouping of the prints. If the deer had simply sneaked out of the way of a hunter, the skulking would also be readily apparent in the tracks. They would be more closely spaced, more delicately and cautiously placed.

With the possible exception of this last bit of evidence, the average inexperienced rifleman entering the woods for the first time, could read the tracks just as well as the most skilled woodsman.

It is well to remember in woods hunting, that there is never an action of game which is not based on three things: security, food, and procreation. A deer moves out to feed. It seeks the security of heavy cover to lay up for the day. If there is a storm, it will find the best shelter the range affords.

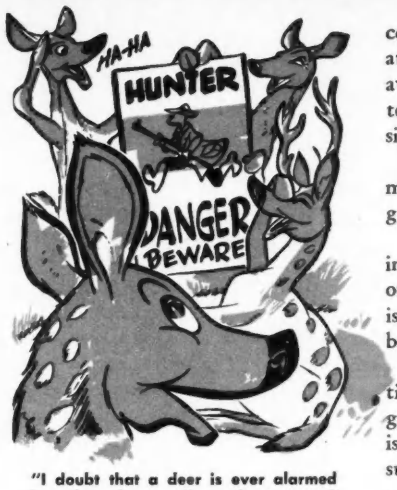
A rifleman, seeing a track, and having this in mind, can deduct much greater and more helpful evidence from the print. It is no longer a mysterious symbol without meaning. He reads it in relation to these three influences.

The keystone of still hunting, or

"A sure knowledge of the weather will give a hunter all he needs to place a track as to time . . ."

any other type of hunting for that matter, is close, detailed observation, logical deduction from the trail evidence presented, but always keeping in mind that it is much better to read too little rather than too much from the sign presented.

How old are those tracks? This is answered by the tracks in reference to the weather. A fresh track, either on snow or bare ground, is the easiest to read. It will stand out like a spade of fresh-turned earth, and for the same reason. The earth, leaves, or mast is disturbed: the weathered top of the litter is turned over and moved, exposing the different colored under soil and trash.



"I doubt that a deer is ever alarmed by the shape of a hunter . . ."

On snow the contrast is even greater. The fresh crystals of the newly turned snow have a different texture, and stand out plainly.

Tracks which are over twenty-four hours old have weathered enough so that they are not easily confused with fresh ones. The pressed snow freezes down: the crystals, which were pushed up by the drag in the fresh tracks, have either melted slightly in the weak sunlight, or frozen down like the rest of the track.

A sure knowledge of the weather during the last twenty-four hours will give a hunter all the knowledge he needs to place a track as to time. The presence of a few snowflakes in a track, if the rifleman knows at what time the fall took place, is one sure way of establishing age.

Suppose a twenty-four-hour weather cycle is something like this: A flurry of snow early in the morning, then dull clear skies till noon. Weak sunlight for three hours, then another flurry of snow. It would require no great amount of ability to judge the age of big-game tracks coming under such a weather cycle.

Obviously, the tracks made early in the morning would show greater effect of weather. They would have more snow in them. Between the first and second snowfalls, they would show where the weak midday sun had melted a thin layer of crystals. Those made during the late afternoon would not yet show any tendency to melt and freeze down, and they would have only a light sprinkling of snow in them.

Any hunter, regardless of his experience, would have no difficulty in reading sign under those circumstances. It is only a matter of keeping in mind the type of weather experienced over the hunting territory during the past twenty-four to forty-eight hours. If the hunter learns by careful observation just what changes exposure to weather makes in the tracks, he has the foundation on which to build a good woods hunting technique.

The pay-off will come when the rifleman is confronted with the question of what type of country to hunt—which territory the deer are using at the moment. A lot of fruitless hunting can be avoided if the hunter can read signs well enough to separate the territory which has reasonably fresh sign from that which is too old.

This information is important, whether the rifleman is still hunting, driving, or just watching the game trails.

The difference between the skilled hunter and the inexperienced woodsman is, that while the amount of evidence a skilled hunter can deduct from tracking is limited, the deduction is accurate and has a direct bearing on the success of the hunt.

If the rifleman goes into the woods with the intention of profiting by each experience he has with big game, he will eventually become convinced that there is much less luck in taking a deer than is universally supposed. Those unaccountable times when he jumps a deer while making no effort to move cautiously through the woods begin to take on meaning. This, incidentally, has caused more beard muttering than any one phase of woodcraft. What is the explanation? Are some deer just dumb, waiting to be killed by the first hunter to stumble on them?

Just about the time the rifleman arrives at the painful conclusion that he must learn to move through the woods as noiselessly as the traditional Indian, he stumbles onto a big buck. Bringing his rifle to his shoulder, the hunter knocks the critter flat. Sometime after the kill, he begins to ponder the situation mightily. Why did the deer just stand there and let him walk up on it? Certainly the rifleman wasn't making any effort to go quietly. All during the week's hunt he had hunted cautiously, upcountry and down, without so much as seeing a hare for his efforts. And now he had walked onto this nice buck, when seemingly he violated every rule of woods hunting. If the rifleman should happen to be hunting with an old-timer, he will put the question to him. The old-timer will very likely mutter something about damfoolluck, which is no answer at all.

Another place where the rifleman may ponder this matter of noise is while watching a logging slash during late evening.

"It should require no great insight to deduct two bits of information . . . the evidence would show where the deer were feeding, and also where they were bedding down for the day."

If he has taken up a position with due regard for wind direction, the rifleman will hear the game approaching the burn long before he sees it.

How does the game react to this noise? Suppose that some deer are already in the burn feeding, and others are still coming in. Does the noise made along the game trails by the late arrivals frighten those already feeding? No. Occasionally they will throw up their heads and listen for a moment. When they have *placed* the noise, they go on feeding, unconcerned.

Deer are not bothered by the snapping of a twig, or the soft swish of brush on the trails leading into the burn. This noise, incidentally, would sound the same if it were made by a hunter moving cautiously along the trails, or by an elk or other big game. There is nothing for the game to consider except the sound.

The plain truth of the matter is that if deer or other game animals were put to flight by the casual snapping of a twig or the swish of brush on game trails, they would be nervous wrecks—not from hunters alone, but from the actions of other game animals. The experienced hunter is constantly capitalizing on this fact. And in this lies the answer to hunters walking up on game while not making any great effort to keep quiet.

The noise, either by design, or accident, is in place. It is normal as to time and place when the game expects to hear noise. A hunter may be returning to camp along a game trail and stumble onto a nice buck. But while actually hunting he moved directly across country, avoiding the *logical* ways the game would use in traveling that territory. Any noise he made under such circumstances would immediately become suspicious to the game. They would know at once it wasn't made by other game.

"Those unaccountable times when he jumps a deer while making no effort to move cautiously through the woods . . ."

Last autumn I put out a deer, a three-point buck, under what another hunter thought was rather unusual circumstances. I walked up to within eight feet of the deer before it went out. My partner saw the whole performance from an adjoining ridge. Afterwards he remarked on how carefully I must have moved to get within such a short distance of the buck. He was a fairly skilled hunter, but tradition was making the explanation, when he accounted for that deer lying so close.

The key to the episode was in the way I moved along the game trail, and also in the time of day at which we hunted. We were working out a large logging slash where deer fed during the early morning and late evening. We had come into this burn just as it was light enough to shoot, working our way across the naked ridges toward the timber. The deer which I jumped had fed and moved out of the slash to lie up for the day. I simply moved along the trail which he had taken toward his bedding ground.

I hunted slowly, making just as little noise as possible, but making some. The deer, I believe, hearing the soft swish of brush as I moved along the trail, the occasional snap of a twig, just took it for granted that another deer was moving out of the burn. The wind favored me, fishtailing across the ridges away from the heavier cover where the deer bedded.

If I had approached this cover from any other direction, even if the wind would have not warned the game, I am quite sure I could not have come within fifty yards of the deer before it decided to go out, and fifty yards in such a jungle would not have afforded a shot.

The simple reason for this would be two-fold. Even if the noise was along the game trails, it still would not be normal for the time of day in which it was made. The normal movements of the game, *toward* their feeding ground in the early morning hours, and away from them after the feeding period, led the deer to expect the noise to approach from these directions at these times. That is a simple fact which even the most inexperienced rifleman can use to advantage, but one which quite often escapes the old-timer.

The ideal in still hunting is to move through the cover with as little noise as possible. In order to do this, the rifleman must take advantage of everything which will cancel out the noise of movement in the brush. Noise is not heard at any great distance upwind. It can be canceled out by wearing proper soft-finished hunting clothes, soft, flexible-soled hunting boots, and by moving slowly.

While noise *in place* does not unduly alarm game, there are other factors which are of great importance. Movement is perhaps the first of these.

It is well known that if a hunter stands perfectly still, even if he is in plain sight of game, the animal is not greatly alarmed. But any quick movement alerts it at once. I doubt that a deer is ever alarmed by the *shape* of a hunter. The deer must see that hunter in motion to identify him, unless he has the confirming evidence of scent to aid him in locating the hunter.

In experimenting to see how close I could walk up to deer in the open, where they had me under observation from the time I began my stalk, I could approach them in proportion to my slowness of movement.

I have walked up to within fifty yards of feeding deer before they took alarm. But when I approached at a rapid walk, they would usually not allow me to get within a hundred and fifty yards before moving out.

There is a logical explanation for this, I believe. Fast movement is associated with danger. Deer, and all other wild game of the deer family, have a deeply ingrained fear of their natural enemies. These enemies, wolves and coyotes, move swiftly. Their method of attack is to run the deer or elk down in the deep snow and make the kill. So it is not illogical to suppose that any sharp, distinct movement comes under suspicion. The hunter who moves fast in the game field is associated with the game's predators.

When the hunter moves slowly, cautiously, he is moving in the manner of the wild game itself. And where the game must associate a movement with a man in order to identify him, the hunter makes it doubly confusing to the game, if he moves at a gait which is that of the deer or elk itself.

(*Continued on page* 34)

The Atomic .22784 Quadruplex

By C. J. FRANKS

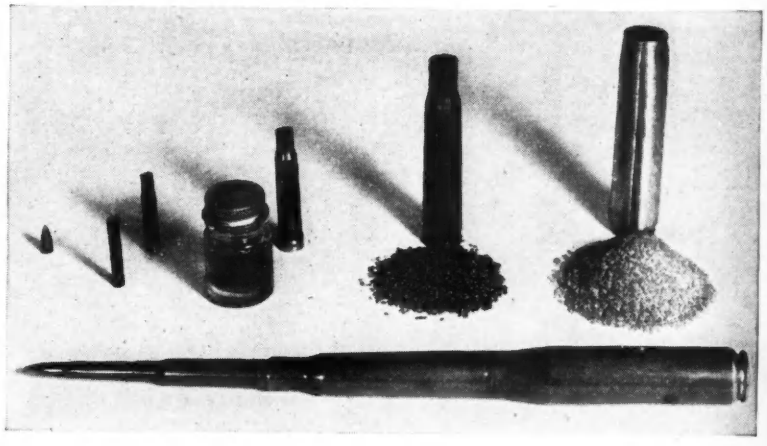
OKAY, OKAY, stop shuddering and making sour faces. It had to come sooner or later. It had to get around to guns. Now that it's here, you'll get used to the idea and can go back to sleeping at night. No, of course, there isn't any uranium or plutonium in the load; there isn't any in the Atomic Cocktail, is there?

This load is the result of my getting impatient with the piddling methods customarily employed by the wildcat gun bugs in working up their high-velocity loads, as described in THE RIFLEMAN over the past few years. It seemed like an awfully slow and dragged-out process, this creeping up on ultravelocities a few hundred feet per second at a time, with much anxious scanning of primers and inspection of cases and checking of head space. Why, at that rate it would be years before we got into the 10,000 foot per second bracket. When a real scientist looks at a problem like this, he always asks, Is this really the way to do it, and can it ever give us the desired result? Could we do better by abandoning the old methods and going to something entirely new?

Well, as soon as you put it that way, the answer is plain. We have to break away from the old single bullet, single powder charge limitation if we are ever going to break into the upper regions of speed. The old pressure-velocity relationship has us stymied as long as we stay with it, and the only way out is to get the cumulative effect of several powder charges, compounding the velocities of them all. Instead of trying to accelerate the bullet to its final velocity in one stage, we do it in four, each one keeping within normal pressures and velocities, but all adding, so that the final muzzle velocity is the sum of four. By this method we can attain really high speeds—around 13,500 feet per second, which is somewhat above the speed of sound. Simple once you hear it explained, isn't it? Now, why couldn't you have thought of that yourself?

Of course, a genuine scientist leaves nothing to chance. He has to compute the constants of each part of his system so that all will work properly together, each stage contributing its full share and each working at maximum efficiency. I shall not weary you with the complex theory involved in this new load, with a description of the many notebooks I filled with my calculations, with an account of the many weary nights I sat up working on the weights of each part of the load, computing sectional densities of the powder charges, and the exact ignition timing required to set off each powder charge in sequence at exactly the right split instant. (This must be done to a tolerance of less than .0073 microsecond.) It's enough to say that this preliminary work occupied all of my nights during the war years, when I could not sleep for worrying about material shortages and priorities. It was completed only a short time before V-J Day brought its cancellations of our contracts and gave me the time to retire to my workshop and labor to bring my brain child into being.

The photo shows the completed four-stage load and the various components of which it is made. No photo of the gun itself is shown since this looks merely like a standard 20 mm. Oerlikon machine gun, such as found such wide use as an anti-aircraft cannon during the war. The slight changes which were made in the barrel do not show in the photograph. The standard gun mount was used because of its availability and suitability as a sort of super machine rest for testing the gun.



A complete .22784 Quadruplex round, and propellants used in each increment of the four-stage load. Note that third propellant is a liquid, and final charge is a solid, shaped cylinder of Tabazine. Ignition timing of cases must be held to tolerance of less than .0073 microsecond.

The choice of ballistic components was greatly influenced by the availability of standard ordnance items which could be assembled into the desired combination. To bore and rifle each of the four barrels would have been too slow and expensive, but a lot of useful parts can be picked up around Army and Navy ordnance depots, provided you know the right people, and this accounts for the particular calibers used in the Atomic Quad. The gun itself starts out as a standard 20 mm. Oerlikon assembly, with the barrel cut off twenty-five inches ahead of its chamber, and the end threaded to receive a standard .50 caliber machine-gun barrel. This is cut off twenty-three inches ahead of its chamber and threaded to receive an old .30 caliber bull-gun barrel, one and one-half inches in diameter. This in turn is cut off twenty inches ahead of its chamber and threaded to receive the special .22784 barrel, twenty-five inches long and one and one-half inches at the breech, tapering to one inch at the muzzle.

It was necessary to select barrels having the same direction of rotation of the rifling, as it would never do to have the bullet reverse its direction of spin when part way down the barrel. This fact was called to my attention by a chance remark made by my faithful wife, to whom I am greatly indebted for the many gallons of black coffee which were re-

quired during the construction of the gun—to drink, of course.

The complete round, as shown in the photo, consists of a standard 20 mm. Oerlikon case with normal primer, loaded with 468 grains of No. 5674 powder. This is the only normal percussion primer used, as all the others must be special. When this charge is fired in the normal manner, the forward section of three cases is sent down the barrel as a unit, traveling as such until the rearmost of the three cases seats in the .50 caliber chamber. This is a normal .50 caliber case with the head slightly reduced in diameter to fit the mouth of the 20 mm. case. This produces the proper conditions so that the heavy head of the .50 caliber case engages the rifling and imparts the first stage of spin. This .50 case is loaded with 264 grains of 5739 powder and is fired, at the exact instant of seating in its chamber, by a special precision delay primer which will be described later. This charge then sends the two forward cases down the .50 caliber bore with a velocity equal to the sum of the two separate velocities, or about 5,800 feet.

When the third case, a standard .30-'06, seats in its chamber, its load of fifty-three grains of special propellant 5873 is fired at the correct instant by its own precision delay primer, thus sending the last case, a modified Lovell, on up the .30 caliber bore. By the time this last case reaches its chamber, it, together with its solid, shaped charge of twenty-eight grains of Tabazine, special primer, and bullet, is traveling at 9,600 feet per second. To this already-respectable velocity is then added the speed due to the explosion of the Tabazine, thus bringing the bullet up to its final muzzle velocity of 13,500 feet per second. In order to withstand this terrific speed, the .22 caliber bullet is made up with a special Carboloy core and a full-patch jacket of Glostren metal, which was used because it is the easy-slid-ingest metal known. The bullet weighs forty-eight grains and is swaged to an outer diameter of .22648 inch. Now, if you have been following this account with attention, you have undoubtedly noticed that the bullet is smaller than the bore. This difference of .00136 inch in diameter is necessary because of the centrifugal expansion of the bullet at the enormous rotational velocity of 1,600,000 r.p.m.

By the way, do not try to identify the powder numbers in your current Stoeger catalogue, as they are all specials made up for the peculiar requirements of the Quadruplex load. The final stage powder, Tabazine, is really something special, producing as it does a velocity increment of 4,100 feet per second, with only twenty-eight grains in the charge. It is able to do this because it is a true explosive, not a propellant or burning powder, and can be used because the velocity of flame propagation through the solid charge is just balanced by the velocity at which the case is traveling at the instant it is fired.

The precision delay primers mentioned above are required because each charge must be fired at the exact instant it reaches its chamber. Otherwise, there would be a loss of efficiency and of final velocity. No ordinary percussion arrangement would do here. Instead, the primer consists of a spiral powder train with a burning time carefully calculated for the exact time required for its case to travel down its length of bore. The powder train is ignited by the propelling charge back of it and burns through and ignites its own charge just as the case seats in its chamber. It will be realized that this ignition system is the heart of the gun, and that success can come only as a result of the greatest possible accuracy.

An interesting point comes up here. Having these cases stuck in the bore ahead of the powder pressure that propelled them, how are we to allow the entrapped hot gases to escape? One thought was to let them cool off, then open the bolt with a long string, but this seemed unscientific. At this stage of the dilemma the faithful wife came through with the suggestion that a little hole be drilled in the bore just back of each chamber, to vent the gases. However, she is not a scientist and so this suggestion had to be rejected as unworthy. The problem was finally solved by the true scientific method of throwing away all the old solutions and doing something entirely different, and the result is an artifice so simple that it seems foolish. It consists merely in altering the primer pocket so that the primer seats in the case from the front, instead of from the rear as usual. Then, as soon as the bullet leaves the muzzle and the front pressure is relieved, the primers blow out in succession and the gases escape through the muzzle, where they can do no harm except to the foliage in front of the gun. This will result in four separate muzzle blasts as the bullet and three primers successively let go, and should give quite a novel sound to the report. In fact, at a certain critical distance from the gun, the four blasts will cancel in pairs and result in no sound at all.

The problem of ejecting the fired cases was another that gave me a lot of trouble, and for quite a while I thought it would be necessary to unscrew the three forward barrels after each shot. But the solution finally reached was on a par with all of the other ideas included in the design of this novel weapon, and the interested reader is referred to my U. S. Patent, No. 4,484,290.4 in which the system is fully described. Briefly, it operates on the same principle as an ordinary quadruplex steam engine.

I have only made up twelve loads for this gun, due to the complexity of the load and the length of time required for assembly. At first it took quite a while, but after getting into practice I was able to make up a complete round rather quickly, seldom taking more than five days. There wasn't much use making up any more than twelve, because my computations show that the forward barrel section would be eroded and enlarged by about .0003 inch after twelve rounds, which will completely destroy its accuracy.

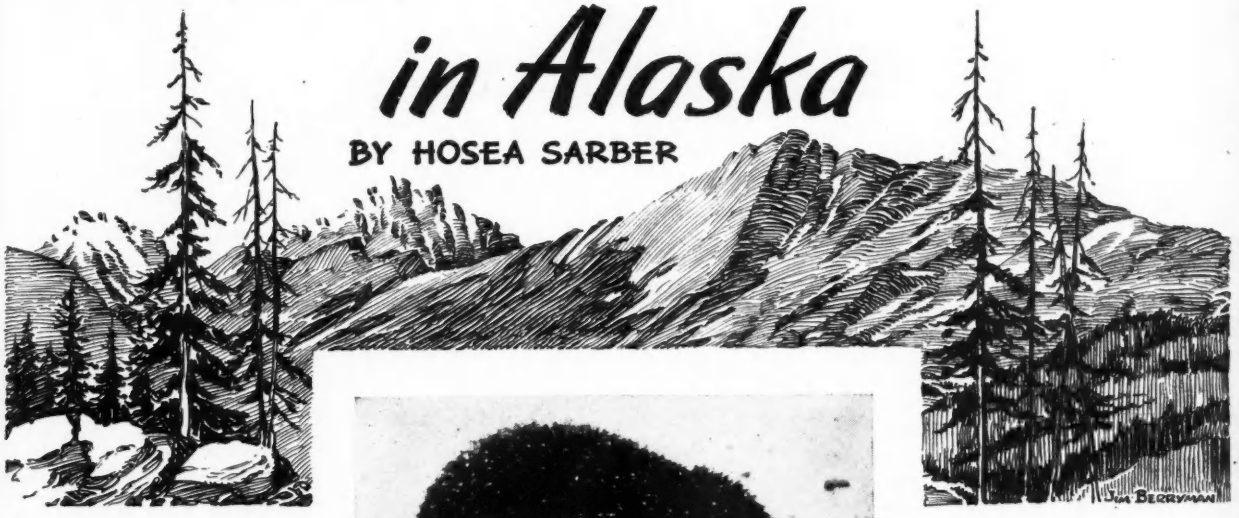
I had thought of using the old system of bullet weights and powder charge weights in naming this new gun, but the complete designation, including such vital information as barrel diameters, came out to be 48-.22784-39-.308-53-.500-284-.787-468, and this seemed a little unwieldy. So, the true scientific method was again substituted for the old inefficient system and the Atomic Quadruplex emerged triumphant.

I do not, unfortunately, have a suitable range on which to test fire this gun, and hence am obliged to allow someone else to take the ri—have the honor. If any of the boys at Los Alamos are shooters and would like to try out this gun for me, I will be glad to send it to them with ten days' inspection privileges. Outside fair, some scratches on base, inside perfect. Stamps, please.

Editor's Note: *Because the Quadruplex loading system has not adequately been tested, this account of its development is offered* RIFLEMAN *readers as a matter of information, rather than as an indorsement of what appears to be a radically new system of reaching ultra-high velocities in . . . All right, so we can't keep a straight face. Yes, it's a joke.* ◆ ◆ ◆

BIG-GAME RIFLES *in Alaska*

BY HOSEA SARBER



Photos from U. S. Fish and Wildlife Service

IT SEEMS ALMOST SUPERFLUOUS to try to add to what has already been written about killing power and hitting ability of good rifles for the taking of big game. Yet from the numerous inquiries we get from hunters interested in big-game hunting in Alaska, particularly the younger sportsmen, it is clearly indicated that many of them are confused and in a quandary as to choosing a suitable rifle.

It so happens that it has been my privilege to observe big-game rifles and hunters at work in the field in Alaska for some twenty-four years. During this time I have seen hundreds of heads of big game and predatory animals taken with almost all of the popular calibers. These observations have presented splendid opportunities to appraise the qualities of fine rifles and calibers in the hunting field. If these remarks will tend to ease the minds of confused sportsmen and give them confidence in the field, then something will have been accomplished.

Let me say at the beginning that there is no better way to acquire confidence in hunting than to do plenty of intelligent practice with the rifle. And confidence, gained by actual experience and practice, is one of the most important attributes a hunter can have. If you are going after big game you should be familiar enough with field shooting and with your rifle to assume quickly a steady, field-shooting position with little effort.

YOU ASKED FOR IT . . . HOSEA SARBER GIVES US A FOLLOW-UP ON HIS "WILDCATS IN ALASKA" IN THIS FACT-FILLED REPORT ON BIG - GAME RIFLES AND LOADS

In considering the killing power of a rifle let us consider the toughest of all our big game animals, which is the great Alaska brown bear. Any rifle adequate for these beasts is of course ample for moose or any other big game in America.

In recent years some hunters have been going to the heavier calibers for use on our heaviest game, particularly for brown bears—some because they have made failures and feel the need for more killing power, and not a few because of fashion. These heavier calibers have included a variety of wildcats, while others have chosen the .300 and the .375 Magnums. Both of these big Magnums are excellent rifles for brown bear, and I doubt that there is a better commercial cartridge made for the purpose than the .375, provided however *that you can handle it properly*. I have seen hunters who could not handle it at all because of recoil, and they would be far better off with a lighter caliber. Because of the unpleasant recoil they had not shot the rifle enough to become familiar with its characteristics nor to learn its trajectory. Indeed, as often as not, they did not know if their rifle was sighted in and did not want to shoot it except at game!

For those hunters who prefer the big bores and must have a lever-action rifle, the .405 Winchester and the .348 Winchester are the answer. Both are good killers with proper bullets at close and medium ranges and for use in heavy cover. For brown bear the .348 should be used with the 250 grain bullets. These rifles are not long-range weapons, however, and are at their best only in heavy cover and at close range.

Among brown-bear hunters, the most discussed caliber and still by far the most popular is the old time-tried "war horse" .30-'06. More questions are still asked about this old-timer for big game in Alaska than any other. "I've read that the .30-'06 isn't big enough for moose and brown bear. What do you think about it?" This is a typical question asked by hunters contemplating a trip to Alaska.

It has become quite the fashionable thing for a few hunters to condemn the .30-'06 for use on our heaviest game. These conclusions have been brought about because failures have been had on big-game animals from deer to brown bear. Sure, there have been failures, many of them; but, Mister, it isn't the fault of the caliber; it is the fault of the gentleman behind the gun! With so many rifles of this caliber in use there are sure to be many hunters who have failures with it, and too often, human nature being what it is, the rifle instead of the hunter is blamed. "I hit that bear right behind the shoulder and he got away." This is a typical alibi. Nuts! When a hunter tells you that with a straight face, ask him how he knows where he hit the bear when it got away!

A typical example of one of these failures that I know of was when a nonresident sportsman and his guide had stalked to within very close range of a brown bear just at dusk on Admiralty Island. The hunter, shooting a .30-'06 rifle, took an ideal shot at the bear's shoulders. The bear was knocked down, but immediately got up and ran like hell for the nearest cover. As it neared the jungle the guide cut loose one shot with his .375, but the bear kept on with nary a flinch. The hunter was disgusted, and at once remembered the condemnation he had read about this caliber. His dejected remarks were uncomplimentary, to say the least, because he had hit that bear smack in the shoulder, but it got away! That is the story that spread around the hunting yacht that night, and grew with time.

However, the guide, being a man who knows his onions, was reasonably sure he had socked that bear dead on with the .375. He carefully examined the escaped bear's trail and found blood. He waited, and the following morning at daylight he picked up the trail, and after 300 yards or so of careful trailing he found the bear dead, shot through broadside with the .375. Examination of the bear disclosed that the hunter had hit it in the wrist of one front leg! And another "failure" of the .30-'06 was spread around the country.

One of the greatest mistakes made in the use of the .30-'06 is in the choice of ammunition for the game hunted. For heavy game, the heavier bullets should be used; and they MUST be bullets that do not disintegrate on impact. They must hold together well and hold their weight and give good penetration to kill well on heavy game, and a bullet that breaks up too much and sheds its weight cannot penetrate well.

One of the best loads for heavy game I ever used in the .30-'06 was the old 200 grain Western Tool and Copper Works bullet in a handload with forty-eight grains of No. 4320 powder and noncorrosive primers. With a full charge of the newer 4350 powder it is still better.

With this bullet I once shot an infuriated female Kodiak brownie that had been provoked beyond her patience by an overambitious and enthusiastic cameraman who took undue liberties with her and her two big, boisterous cubs. The bullet entered just back of the jawbone on the left side at twenty-seven feet distance, and smashed the neck bones as it slanted back, then penetrated the lung cavity and lodged in the back of the right lung. We found the bullet well battered and mushroomed, but still in one piece.

Another fine load for brownies in heavy cover at close and medium ranges is the 225 grain Peters belted bullet with a full load of 4350 powder. This bullet really holds together, after riveting over on the nose to about .50 caliber. It penetrates well and is a splendid killer.

With this bullet in the factory load I once shot through a medium-size grizzly endwise at 125 yards. The bullet entered the chest from in front and came to rest a couple inches from the hide in the back of the hind quarter. It was all in one piece and perfectly expanded to the belt.

This same bullet in the 180 grain weight is ideal for the longer ranges and performs perfectly on heavy game at all ranges out to 300 yards. It rivets over nicely on the nose out to 300 yards, yet holds together well at the closest ranges. I have a handful of these bullets we took from nine Kodiak bears killed by one party of hunters I was with, and they are all perfectly expanded and held together from the belt to the base. The expanded portions measure from .45 to .70 caliber and represent shots at 300 yards to as close as thirty-five yards. Some of these bullets penetrated completely through those big bears at the shoulders, and they killed well indeed.

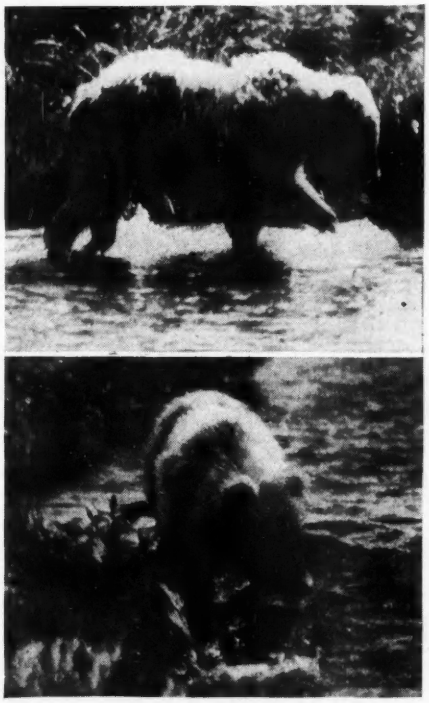
For an all-around load in the .30-'06, the W. T. & C. W. bullet in 172 grain weight, pushed by forty-nine grains of 4320 powder with noncorrosive primers, is a good performer. It kills well on all big game short of brownies, and if properly placed is a good brown bear load, especially for the longer ranges. This bullet breaks up and sheds its weight too much, however, to be ideal on heavy game at close range.

In factory ammunition my choice of loads for brownies at close and medium ranges in the jungles was the Peters belted bullet in 225 grains weight and the Western 220 grain bullet with the small tip-of-lead soft point. These loads are real killers and are ample for brown bears. For all ranges up to 300 yards or so the Peters belted bullet in the 180 grain weight is ideal and is the best all-around bullet in the .30-'06 that I have ever seen for our heaviest game.

One of the finest big-game calibers for all-around use, particularly for the longer ranges, is the .270 Winchester, provided

again that we can have bullets that give proper performance. This caliber is becoming more and more popular in Alaska all the time, and justly so, particularly for use in the open sections of the Territory where long shots are common. With the 160 grain bullet and a full load of 4350 powder it is ample for all big game except brown bears. And if I could have this load with a bullet that would hold its weight, after riveting over on the nose, I would not feel undergunned for brownies. But that kind of a bullet is a must for big bears.

I have shot only one brown bear with the .270, using the 160 grain Barnes bullet with fifty-four grains of 4350 powder and noncorrosive primers. On a chest shot from in front at 190 yards it knocked the big bear flat and killed surprisingly well. However, this bullet with this load breaks to pieces and sheds its weight entirely too much for heavy game on anything but ideal shots. I should like to see Barnes make this long bullet so it would buckle up only on the nose and not break to pieces, and then it would really drive in. Some enterprising ammunition maker one of these days is going to bring out a 160 grain bullet in this caliber that will take the punch and give ideal performance and the .270 will then be right at the top of the heap as an all-around, big-game rifle.



Brown bear fishing, Izembek Bay

One of the outstanding characteristics of the .270, which makes it a real all-arounder for big game, is its phenomenal ability to place bullets of different weight so close to the same center of impact. It shoots its various factory loads of 130 and 150 grain bullets, and the 120, 140, and 160 grain bullets in handloads, so close together that it is amazing. A rifleman hunting with a good .270 in country where he may encounter anything from deer and sheep to moose and grizzlies is indeed armed with an all-around, big-game rifle.

Now, after the smoke has cleared away, it boils down to the fact that no matter what caliber rifle is used, it is hitting ability and bullet performance that is most important for all-around big-game shooting. There is no doubt that rifles of the .30-'06 class are ample for our heaviest game, provided we can have bullets that will give proper performance, though I would recommend nothing lighter for brown bear. Entirely too many of our bullets in most calibers fail to give ideal performance on our heaviest game because they break up too readily on impact. When a bullet breaks to pieces or "explodes" on impact it is worthless for heavy game. Also, if it ruptures too much and sheds too much weight it cannot penetrate properly and give ideal performance. A bullet to perform properly on big, heavy game like the Alaska brown bear MUST hold together and retain its weight and penetrate into the vitals to kill well. Bullets that break to pieces are good only for broadside lung shots back of the shoulder. They will not get through the first shoulder on a big brownie if they break up too easily, which will mean losing trophies.

No less important than killing power is the hitting ability of the rifle used and the hunter using it. There is little wisdom in having a 500-yard caliber with only 200-yard accuracy! It must be understood that to kill big-game animals like the Alaska brown bear successfully they must be hit right, no matter what rifle is used. That means that they must be hit solidly in the vitals, in the front end, and not just anywhere in the body. I have repeatedly seen both black and brown bears escape completely after having been knocked flat with the .375 Magnum, simply because they were not hit in a vital place.

Two sportsmen that I know each lost a bear this spring that they had knocked down with .375 Magnums, because, of course, they had not hit them right. One of the bears, an Admiralty Island brownie, was knocked down three times and shed a lot of blood and pieces of bone, but got completely away in the rough mountains.

Another hunter that I was guiding years ago knocked a black bear down with a .375 Magnum at the head of a meadow near tidewater. It got up suddenly and went into the dense nearby cover before more shots could be fired and got completely away. I followed the bloody trail for nearly a mile, then lost it on the steep rough mountain. We never found that bear.

Too many hunters armed with the big bores, or any caliber for that matter, believe that all that is necessary to anchor their game on the spot is to hit it anywhere in the body. This is a mistake and accounts for the loss of many big-game animals. It is far better to get as close as you can and then make special efforts to hit heavy game in a vital spot, no matter what caliber rifle is used, and most hunters can do this better if they use rifles of medium high power rather than the big-bore Magnums. As I look back and review the numerous big-game animals I have seen killed, I note that the hunters using rifles of moderate high power, such as those in the .30-'06 class, have been fully as successful as those using the big-bore Magnums, not because the Magnums do not have more killing power of course, but because the hunters could not place their shots so well with the big bores.

In speaking of accuracy and hitting ability in rifles, there is a great deal more to consider than simply the size of groups the rifle and its ammunition are capable of, and the trajectory curve of the bullet. Seldom indeed do we see much written about the accuracy of a rifle other than the size of the groups it will make from one position. This is misleading, because in field shooting we must consider the *practical* accuracy of the rifle, or the size of its *composite* group when fired in all the various positions and holds necessary in all-around field shooting. Mister, there's a lot of difference! And how little does the average sportsman suspect how his dainty little Circas-

sian beauty has let him down! Many long-range misses in the field are directly attributable to the rifle changing its center of impact from shot to shot because of change of hold and shooting position. It is surprising how few sportsmen and hunters will believe such changes exist, but they are there. I learned them the hard way!

Ever since I was big enough to wash my own face I have been monkeying around with rifles, and have burned many, many pounds of powder in everything from the lowly .22 to the big-bore Magnums, including many wildcats. Years ago, when I was shooting for bounty and guiding hunting parties, I set about to find out where my bullets were going, "out

yonder." Numerous unaccountable misses prompted me to make a long string of tests, the results of which were a revelation indeed.

From some of these tests I rigged up a target range where I could shoot in all directions, in every manner of position, hold and rest, up and down hill, and at 100 and 200 yards. I shot prone with sling, prone with rest, sitting, and with all sorts of holds on the rifle. This is exactly the type of shooting encountered in the field. Most of the shooting was done on targets with six-inch bulls, except with rifles sighted with iron sights, when larger bulls were used at 200 yards. For the up- and down-hill shots I placed the targets on a steep mountain side along a friendly trail.

We put a good many rifles over this course, including light hunting rifles of heavy caliber and bull guns in light calibers. Sighting equipment was everything from the crudest of open sights to the finest of hunting and target scopes. A five-shot group was fired from each position, so there was no guess work as to the center of impact from that particular load and position. In this manner the practical accuracy of a rifle can be determined; that is, its composite group will be shown, and that is what counts in field shooting. Each change of shooting position and resultant hold on the rifle will be reflected by the center of impact. If you don't think a light rifle heavily charged will move its center of impact all over the map under these conditions, try your sweet-handling featherweight gas pipe over such a course some time!

There are many factors that contribute to changes in center of impact under these conditions, the details of which cannot be gone into here but the BEST scope-sighted, bolt-action rifles of light hunting weight of the .270 and .30-'06 class, fired in this manner, as in all-around field shooting, will usually make a composite group at 200 yards of more than double its normal group size! Indeed, many of them will triple their composite group size, with each individual five-shot group from any one position and hold being perfectly normal. The heavier the caliber in relation to the rifle's weight the greater will be the variations, other things being equal. And if a rifle is not perfectly bedded into its stock and fired thusly, the shots will scatter much more. Add to this the errors caused by light changes from position to position with best aperture sights and bright beads and your shots will scatter still more, until finally, with the ordinary open sights and bright hunting beads, by the time you get out to 300 yards it will take a load of hay to catch all the shots if you fire in all the positions, holds, and angles! If we add still further, wind deflection and such rifles as featherweight, take-down models, we get an extreme spread of shots at 300 yards that—well, try it yourself some time! It is little wonder that hunters often cripple their game or make mysterious misses at long range in the field—then blame the caliber for being a poor killer because they believe that they "hit where they looked."

So what? How are such factors to be corrected? Well, it isn't quite so dark as it looks and a great deal of the error can be eliminated.

I mentioned that a fine rifle must be perfectly bedded into its stock for best performance. This bedding business is really something, and many a good rifle has been sold because it was "shot out" or "won't shoot." As often as not, the trouble is in faulty bedding, and chances are, the bedding was O. K. when it left the factory or the custom stocker, the trouble having developed later from recoil or from the stock warping from exposure to the elements.

When your pet rifle starts making misses you know should have been hits, first make sure the guard screws are drawn up tight. If this does not correct the trouble, then check the bedding throughout. If you are not familiar with this work, then by all means have it done by a competent and thoroughly reliable stocker.

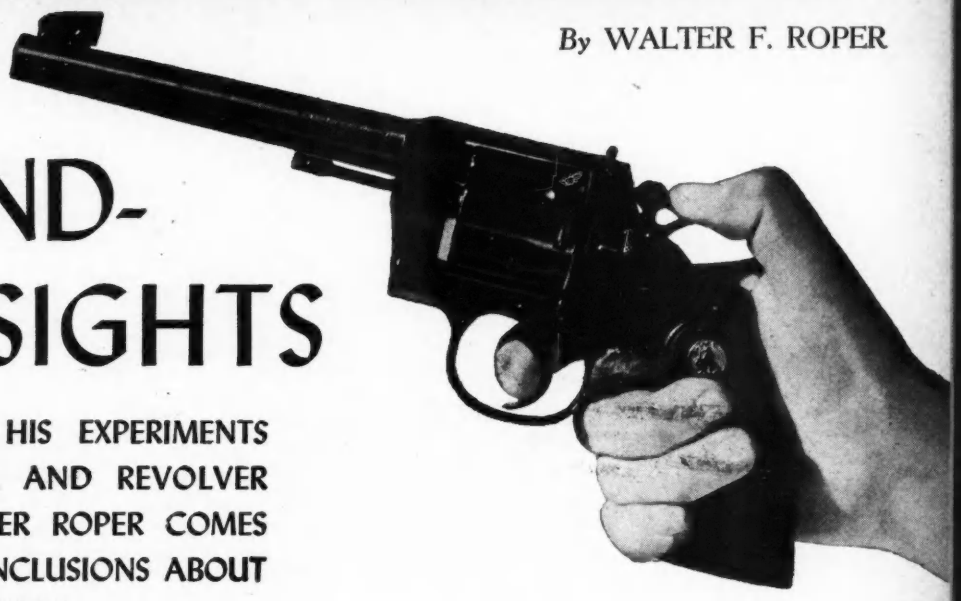
It is not possible to go into the details of rifle bedding here, but the major points to check are to see that the recoil shoulder, in bolt-action rifles, bears firmly and squarely against its abutment in the stock. I have often found this to be the source of trouble, and by inserting a thin shim of brass between the shoulder and its abutment the trouble was usually corrected. If your rifle will take a shim at this point put it in. This is a very important point and the rifle cannot shoot accurately unless this is tight.

One hunter I guided on a brown bear hunt complained before the hunt that he couldn't get his rifle sighted in, and asked me to help him. It was a fine custom-built, Circassian-stocked, .375 Magnum, built by one of the leading shops in the country. He said it shot all over a washtub at 200 yards.

The first thing we did was set up the guard screws, each of which required about two turns! This promptly ruined the trigger pull and cramped the bolt until it wouldn't function. I noted the stock had started to split slightly, just back of the tang on the upper side of the grip; so we took the rifle apart. We found that the rifle had set back in the stock from recoil until the recoil shoulder in the stock had completely broken loose on both sides. It was not possible to make suitable repairs, as no amount of shimming could make it tight, there being no abutment left to support the recoil lug. We tightened it up the best we could, and he tried to use the rifle, but as he had said, it was doubtful on a washtub at 200 yards. He had to restock that rifle. *(Continued on page 30)*

A Study of HAND-GUN SIGHTS

By WALTER F. ROPER



CONTINUING HIS EXPERIMENTS WITH PISTOL AND REVOLVER SIGHTS, WALTER ROPER COMES TO SOME CONCLUSIONS ABOUT IDEAL DIMENSIONS . . .

SINCE OPEN SIGHTS ARE REQUIRED on target handguns, it seems strange that no one has made thorough tests to determine just how efficient this type of sight can be. The rifle shooter is permitted to use the most efficient sights he can devise, and to try an almost endless variety until he finds the combination that gives him the finest accuracy. Just why this line of thought has not been extended to pistol shooting has puzzled me for a long time. The handgunner, if he uses anything resembling "standard" equipment, is handicapped by open sights so made that, regardless of light conditions, he must be satisfied with dimensions of front and rear sights determined without reference to his personal needs or the dictates of changing light conditions. He cannot, as does the rifle shooter, adjust the size of an aperture to meet those changing conditions and so give him the best possible definition of sights and target.

It may be argued, of course, that the handgun is not supposed to be a weapon of precision, in a class with the target rifle. However, with handgun scores coming nearer and nearer the limit each year, it is certainly up to the handgunner to use sights that will make his sighting just as near perfect as possible, if he wants to add that last point to his score.

With this thought in mind, a series of tests was undertaken a couple of years ago, with the idea of determining just how handgun sights should be made for finest target results, and this article is a report on my conclusions.

Probably 99 per cent of all of our first-class target shooters now use the square Patridge sight, so the following notes relate to tests and experiments with this type alone, and do not concern themselves with the question of whether there is any better type of sight to be had.

In starting a series of experiments on any subject it has always been my custom to start a special notebook in which every experiment is described in detail and all results observed, together with any notes on conditions, to be considered when studying the results later. The very first entry in every such notebook is always, Look up in standard books all that can be found regarding this matter.

This item alone often turns out to be quite a job, for not only books on handguns, but those dealing with rifles as well must be read and studied in order to know "the state of the art," as the patent man describes such a procedure. In the case of the Patridge sight, this study brought out a rather surprising point, and proved again that there is nothing new under the sun. In *The Book of the Rifle* by Freemantle, I discovered the so-called Lewes sight, which is exactly the same thing as the Patridge! This book was published in 1901, and as the Lewes sight was spoken of as a thoroughly tried design, we once again have an example of two inventors working along identical lines.

In 1939, with the help of my shooting partner Ed Bridgman, I undertook to discover what width of front sight averaged to give the most accurate sighting. We also tried to discover the value of undercutting of sight surfaces facing the shooter as a means of eliminating the effects of side light on the location of the group, and as a means of obtaining sharper definition. The results of these tests were published in the August, 1940, issue of THE RIFLEMAN. As these tests were most complete and carefully made, my first entries in connection with the present study are the conclusions reached as a result of those early tests. Here they are:

1. A front sight one-eighth inch wide gave both shooters so much greater accuracy of sighting than any narrower sight, that the one-eighth-inch width is considered the narrowest front sight worth consideration, unless tests clearly show that some other width is better in special cases.

2. While undercutting of all sight surfaces that could possibly reflect light toward the shooter eliminated practically all of the shifting of the group due to changes in light, and therefore is desirable, it was also found that sights which gave excellent aiming accuracy under bright light gave slightly poorer accuracy under poor light conditions.

This discovery led to the proposal that tests should be made to discover if a slightly wider front sight and rear notch, or perhaps one so built that the front sight is always shaded, might give better results under all conditions, or if the solution was to change the front sight on days when the light was poor.

A study of the Patridge sight indicated that the accuracy of sighting depends upon the definition of the front sight in the rear notch, and that this depends upon having the maximum amount of light showing on each side of the front blade without having the notch too wide for accurate centering of the front sight. From this it is evident that the width of the rear notch is of vital importance. Furthermore, different light conditions will probably require different widths of rear notch to maintain the highest degree of sighting accuracy under all conditions. It is also certain that no single width of rear notch can be correct for all guns. As the distance between the front and rear sight varies, the width of the rear notch, to be correct for a given width of front sight, must also vary.

Notebook entries to cover these items were:

1. Determine whether there is some average width of rear notch for a given shooter which will produce results under good and poor light conditions. Find out how the accuracy of sighting with this average notch compares with that obtained with the width that gives finest accuracy with perfect lighting.

2. Determine whether there is a minimum and maximum width of rear notch for a number of shooters, and what this minimum and maximum width is for sights used on six-inch barrel revolvers and the Match Target Woodsman with a nine-inch sight radius.

In considering the best way to get the answer to that first question, it became evident that if there were any average width of notch best for a given shooter, it must be somewhere between the minimum width of notch with which no light can be seen alongside the front sight, and a notch so wide that centering of the front sight in the notch is difficult. It, therefore, became necessary to obtain the answer to question two before the first one could be tackled.

The first surprise of the tests came when I attempted to figure by proportion how wide a rear notch should be to just admit a one-eighth-inch front sight located seven and one-half inches from it, as is true on a six-inch barrel revolver. With my length of arm I found that the rear sight was twenty-seven inches from my eye, and with a seven and one-half inch sight radius, the front sight was thirty-four and one-half inches from it. It would seem proper to determine the width of the rear notch that would just match the front sight by the simple proportion: 34½ : ⅛ as 27 : x. Working this out gives a rear notch .097 inch wide.

Ever since the day many years ago when a teacher of mathematics proved to me by simple algebra that two is equal to one, I have, whenever possible, tested the correctness of any figures by an actual test. I proceeded to file the notch in a blank rear sight of an Officer's Model until the front sight just fitted without any light showing on either side when the gun was held in sighting position. Instead of .097 inch as given by the figures, I found that the minimum notch should be .07 inch wide, and this proved correct for Bridgman as well as four other shooters who tried it. I confess I have no explanation for the discrepancy between the figures and the actual. Perhaps some inquisitive, mathematically inclined shooter can point out the fault.

The maximum width for the rear notch was obtained with less difficulty. It was found that a notch of the same width as the front sight was so wide that centering of the front sight became a considerable problem. Having determined the maximum and minimum widths for the rear notch, the answer to question number one was obtained by making a special rear sight in which slides with notches of different widths could be inserted. Seven slides with notches .07, .08, .09, .10, .11, .12, and .125 inch wide were made and the tests were begun.

It is well to make certain that the object of the tests posed by the first question is clearly understood. The main object was to find if there was any width of rear notch that would give as accurate sighting under poor light conditions as the same shooter obtains with sights best suited to his eyes under the finest light conditions. If no single notch could be found that will give first-class sighting accuracy under all conditions of light, tests were to be made to determine what width of notch is best under poor light conditions. It should be remembered that tests of the kind proposed, in which a factor as variable as human eyesight is involved, cannot possibly result in a single answer which can be said to be conclusive. The best that can be expected from such a test is to determine the limits of notch width for as large a number of shooters as possible. If by chance a considerable number of those making the tests find that one width of rear notch is best for all of them, such a finding can be considered well worth a trial by other shooters, although it must not be thought that it is certain to be the best possible for every shooter.

One more suggestion regarding all tests of sights. These should always be made by the "sighting triangle" method, and not by shooting and attempting to judge the merits of a set of sights by the score made. The object in all testing should be to eliminate every possible source of error other than that inherent in the thing being tested. Sighting triangles do this, eliminating all but the errors due to eyes. The results are, therefore, dependable.

It is regrettable that only four shooters, besides Bridgman and me, could be found who cared to devote the time necessary to the tests, but even this small number required considerable preparation. Six other men had to be found to operate the targets, and all had to be on hand at the same time in order that the conditions during the test would be identical. Fortunately, a whole week of almost perfect weather helped the tests along. By keeping busy it was possible to obtain tests on the first afternoon that answered the question as to what width of rear notch gave each shooter the finest accuracy of sighting at fifty yards, using a one-eighth inch front sight.

That week of perfect weather was a fortunate break, for it became necessary to run off further tests to get at the best

answer to the question of which notch width was finest for sighting slow fire at fifty yards. In the first series of tests, four shooters obtained almost identical results with a .10 inch and .12 inch notch. This suggested that some width between these might be even better for them. The other two shooters obtained their smallest sighting triangles with a .120 inch wide rear notch, but as the other shooters seemed to require something between .100 and .120, it was decided to see if a width between these limits might give all six shooters best results. Four more slides were made, and on another afternoon, under perfect light conditions, the test was repeated. These slides had notches measuring .112, .114, 116, and .118 inch in width.

The results of this test were really startling. Not only did four shooters make their finest triangles with the .116 inch notch, but in every case the triangles made with this notch were superior to any made with any other width. This does not indicate by any means that *every* shooter will find that a rear notch .116 inch in width will be best, or that this width should be made standard for a gun having a seven and one-half inch sight radius, but it does show that the rear notch should be considerably narrower than the front sight, and not equal to it as has often been the case on both factory and special sights.

With the Match Target Woodsman, which has a nine-inch sighting radius, tests showed that a rear notch .06 inch wide cuts off all light with a one-eighth inch front sight. In bright light for slow fire a rear notch .08 inch wide was found to be satisfactory, while for use in both good and poor light a .10 inch notch is suitable.

A second surprise was experienced in actual shooting with these narrow rear notches at twenty-five yards, under timed and rapid fire conditions. It had always been assumed that due to the shorter time available for sighting, a wider notch would be productive of best results. The test showed, however, that this assumption did not prove to be correct, at least for the six shooters making these tests. These then were the results of experiments designed to determine what width of rear notch was best for the six shooters in question when shooting the National Match Course under what might be called perfect light conditions.

The next tests were to see what width of notch was best for each shooter under dull light conditions. Persuading four shooters and six target men to go to the range on a given fine day had proved to be a rather difficult matter, but it was nothing to the trouble experienced in getting the same men to go out on a dull, miserable day. The result was several weeks delay in getting the data on rear notch width under poor light. When finally obtained, it was evident that it was not going to be possible to have a single width of rear notch that would give equal sighting accuracy under both fine and poor light conditions. The final results of the dull light tests showed that the four shooters who obtained best results with a .116 inch rear notch under good light, required a notch .120 inch wide in dull light, and the two who did best with the wider notch in good light required a notch a full one-eighth wide under poor light.

From the results obtained in these tests, it is evident that the four shooters in question must either (1) sacrifice sighting accuracy on bright or dull days, (2) have two guns, one for dull and the other for bright days, or (3) equip one gun with a rear sight in which at least two widths of notch are available. Unless method two or three is adopted, a loss in sighting accuracy of at least 25 per cent will be the penalty.

For some time it has been my practice to make the notch in my own sights as deep as it is wide, and the tests already noted were with notches made in this way. We, therefore, decided to try notches that were shallower and deeper than those already tested. We found at once that any notch shallower than its width caused blurring and resulted in a loss of accuracy in aiming. Tests of deeper notches, while not improving the accuracy of aiming, did seem to make the definition better and we decided that, at least for us, a notch at least one and one-quarter and even one and one-half times as deep as it was wide was desirable.

A final test, that to see if the total width of the rear sight had any effect upon accuracy of sighting or upon ease of aligning the sights, came out about as expected. No gain in accuracy was noted in the slow fire aiming tests, but in actual timed and rapid fire the wide-top rear sight proved to be a decided help, and a width of about three-quarters inch seemed to be about the best.

Summing up the results of these experiments, so far as the six shooters involved are concerned, gives us these conclusions:

1. In good light, using a one-eighth inch front sight and a rear notch between .100 and .120 inch wide, gave best results on a six-inch barrel revolver, and a notch .116 inch wide is suggested as a mean for those who do not wish to make tests to find which width is best suited for them. On the Match Target Woodsman, a rear notch .10 inch wide was found best for the shooters tested.

2. To permit equally accurate sighting on dull days, a slightly wider rear notch is required, and if a single rear sight is used for all shooting a rear notch .118 inch wide will probably be the best compromise. For the finest results with the Match Target Woodsman most shooters will probably require a rear notch .110 inch wide on dull days, and this will call for either a dull weather gun, or a rear sight fitted with a changeable notch.

3. For clearest definition, the rear sight notch should be at least as deep as it is wide, and a notch one and one-quarter or even one and one-half times as deep as it is wide will be found excellent.

4. A rear sight that is at least five-eighths inch wide, and better still, three-quarter inch, will be found to make alignment both with the bull and the front sight easiest. ♣ ♣ ♣

"Dad said he was going to do some handloading, so I thought he'd need the 1-ounce jigger."

A Method of Evaluating SHOT-SHELL PATTERNS

By H. L. WALKER

THE CONVENTIONAL METHOD of testing shot-shell patterns is based on shot dispersion at a distance of 40 yards. A 30-inch circle is drawn over the pattern, and so located that the maximum number of pellet holes is included. I have never seen an account setting forth the reasons for using a 40-yard range, nor a 30-inch circle. However, one may conclude that a range of 40 yards was nearing the maximum killing range for 12 gauge guns, with the earlier powders and shell construction, and the 30-inch circle represents a reasonable area over which a killing pattern should be delivered. The 30-inch circle does cover very nicely the maximum concentration of shot when fired from choke-bored barrels, and at ranges beyond 40 yards, one cannot expect to deliver reliable patterns with a diameter of more than 30 inches.

The conventional test gives information pertaining to the percentage of shot delivered to the target within that 30-inch circle, since the pattern is computed as follows:

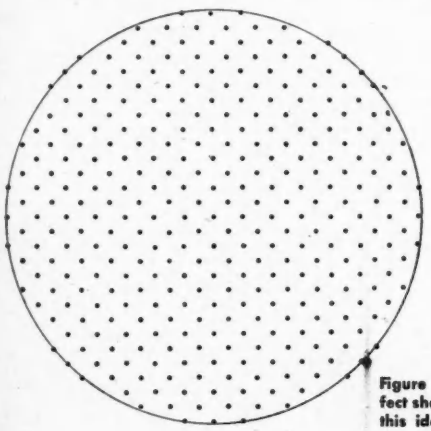


Figure 1: Theoretically perfect shot pattern would show this ideal spacing of pellets

$$\text{Pattern percentage} = \frac{\text{number shot inside 30-in. circle}}{\text{number shot contained in shot-shell}} \times 100$$

The expression "pattern percentage" has long been used to evaluate the efficiency of a given gun, diameter of bore, degree of choke, etc. One does not read nor hear much of tests to compare different features of the loading, such as (1) construction of shell, (2) amount of powder in load, and (3) kind, amount, and weight of shot in load. These variables most certainly affect shot-shell patterns but are seldom recognized by most shooters.

Furthermore, the conventional test gives *quantitative* information in telling the percentage of shot delivered, but it does not give any *qualitative* information concerning the distribution or density of shot in patterns. The ideal distribution would be for each shot to be equally spaced from its neighbors in the pattern. An ideal pattern is represented in Figure 1.

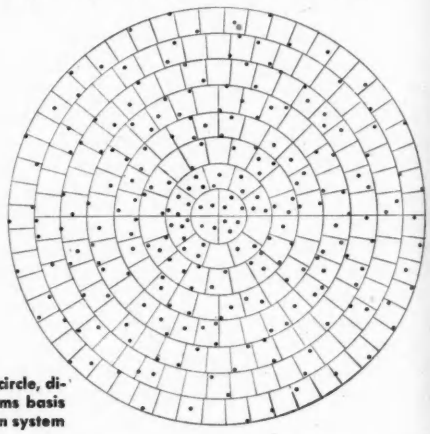


Figure 2: Thirty-inch circle, divided as shown, forms basis of pattern evaluation system

Attempts have been made to secure qualitative information by dividing the 30-inch circle into four equal quadrants and counting the shot in each quadrant for comparison. Another method is to use two circles, with one of 21 inches diameter (52.0 per cent of total area) inscribed inside the 30-inch circle. These circles are then divided into four equal parts by drawing in two diameters at right angles to each other.

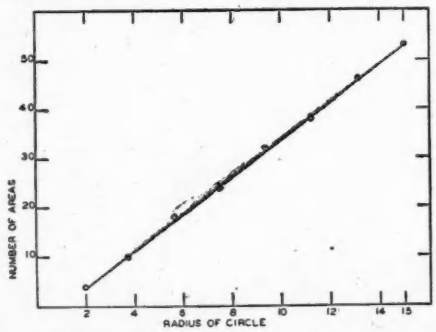


Figure 3: Radii in relation to areas in each of circles

The information to be gained by dividing the standard circle into four or eight equal parts is much better than evaluating the pattern on a percentage basis only. However, we need to

H. L. WALKER *is on the faculty of the University of Illinois, where he is head of the Department of Mining and Metallurgical Engineering. Since completing the system described, Walker has started a series of experiments with choke tubes on skeet guns, using these formulae to evaluate their performance.*

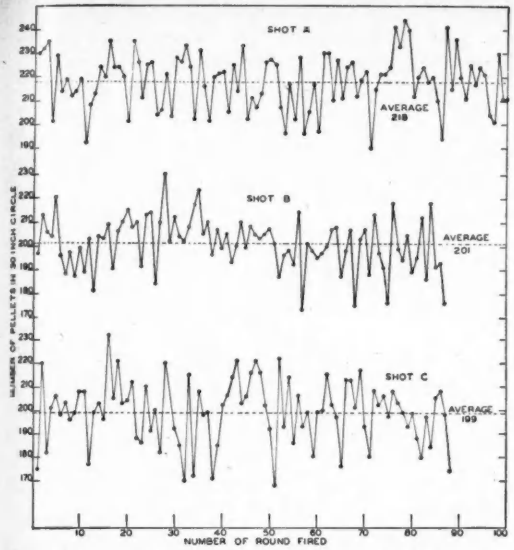


Figure 4: Graph showing number of pellets in basic 30-inch circle for individual rounds of three types of pellets tested by author

divide the standard 30-inch circle into a greater number of equal areas in order that an index of shot concentration and distribution over the entire area can be derived. To divide a circle into a large number (200 to 300) of equal areas of similar configuration is not easy to accomplish. A rather large number of areas is desirable if we are to have an index of distribution representing patterns of the smaller size pellets. For instance, the following represents the average number of shot to be found in seventy-percent patterns for three different loads:

175 pellets equals 70 per cent of 1⅛ ounces size 6
245 pellets equals 70 per cent of 1 ounce size 7½
270 pellets equals 70 per cent of 1⅛ ounces size 7½

The formula for calculating the area of a circle is $\frac{\text{Pi } D^2}{4}$, where Pi equals a constant 3.1416, and D is the diameter of the circle. The area of a 30-inch circle equals $\frac{\text{Pi} \times (30)^2}{4} = \frac{900 \text{ Pi}}{4}$ = 225 Pi square inches. Therefore, if the basic 30 inch circle were divided into 225 areas, each of Pi square inches area, we would have a convenient and sufficiently large number of areas to evaluate the distribution of pellets in a shot-shell pattern. A square figure of 1.7725 inch on the side would contain an area very nearly equal to 3.1416 square inch. It is not possible

TABLE 1.—DATA FOR CONSTRUCTING MASK

Circle No.	Diam. of Circle in Inches	Radius of Circle in Inches	Areas of Pi sq. in. in Circle	Total Pi Areas	Increase in Radius	Angle in Degrees	Chord on Circum. in Inches
1	4.000	2.000	4	4	.....	90	2.828
2	7.484	3.742	10	14	1.742	36	2.323
3	11.314	5.657	18	32	1.915	20	1.965
4	14.966	7.483	24	56	1.826	15	1.953
5	18.760	9.380	32	88	1.897	11.25	1.839
6	22.450	11.225	38	126	1.845	9.474	1.854
7	26.230	13.115	46	172	1.890	7.826	1.790
8	30.000	15.000	53	225	1.885	6.792	1.777

TABLE 2.—METHOD OF RECORDING DATA

Pattern No.		Circle Number								Total
		1	2	3	4	5	6	7	8	
1	Pellets	4	9	33	31	49	40	29	35	230
	Areas	3	6	16	18	25	24	23	26	141
2	Pellets	9	20	29	36	27	47	36	28	232
	Areas	4	8	15	20	15	28	25	21	136
3	Pellets	6	27	31	50	33	27	32	29	235
	Areas	3	9	14	22	20	19	19	19	125
etc.										
Total Pellets		19	56	93	117	109	114	97	92	697
Total Areas		10	23	45	60	60	71	67	66	402
Average Pellets		6.3	18.7	31.0	39.0	36.3	38.0	32.3	30.6	232.3
Average Areas		3.3	7.6	15.0	20.0	20.0	23.6	22.3	22.0	134.0

to divide a circle into square areas, but we can divide the basic 30-inch circle into 225 equal areas of similar configuration.

A proposed method of dividing the basic 30-inch circle into 225 areas, each equal to Pi square inches, is illustrated in Figure 2. The data for construction of the figure are given in Table 1.

The distribution of the equal areas as a function of their distance from the center of the 30-inch circle, from the data in Table 1, is illustrated in Figure 3, where the number of areas contained in each of the eight concentric circles is plotted against the distance of each circle from the common center. Figure 3 shows that the number of equal areas in each circle has a linear relation to the radius of the basic circle, at least to the closest whole number.

The materials needed for construction of the figure are a beam compass with inking pen, a precision protractor or pair of dividers, a straightedge, a draughtsman's pen, a mechanic's scale divided into inches, and drawing ink. The beam compass is

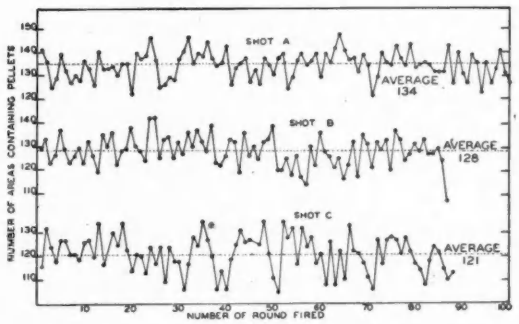


Figure 5: Total number of pi areas containing shot for individual rounds of three types of pellets tested. Areas in circle number 225

used to draw eight concentric circles with radii as shown in Table 1. It is best to draw a straight line on the paper and use the dividers to locate the radius for each circle. A precision protractor may be used to locate the angles in column 7, Table 1. If a precision protractor is not available, dividers may be used to locate a series of chords, of length shown in column 8, Table 1, on each of the circles.

The figure as illustrated (Fig. 2) is constructed on transparent tracing cloth of the type used by draughtsmen. I have found cellulose acetate overlay with one dull side to be ideal, and it may be purchased in pieces 40 inches square from any supplier of engineering materials. Because this type of tracing

material may tear rather easily it is best to round off the sharp corners with a pair of shears. I also advise the initial figure be constructed with pencil on draughting paper, and the completed figure traced on the cellulose acetate.

In use, it is only necessary to place the mask over a shot pattern and adjust it so that the maximum number of pellets are included within the 30-inch circle. The mask is anchored with lead shot bags or other paperweights to prevent movement during counting of the pellet holes. The pellets are counted for each of the eight circles, and the number is recorded as number of pellets in circles 1, 2, 3, etc. In each circle the areas containing pellets are counted and recorded as the number of areas in circles 1, 2, 3 etc. The data are recorded as illustrated

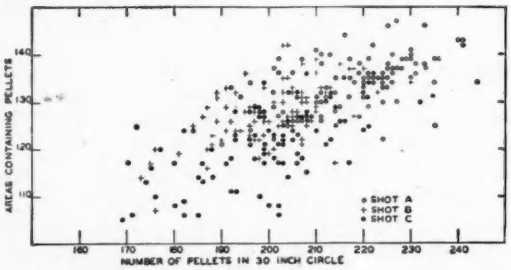


Figure 6: Correlation for individual rounds between number of pellets in basic 30-inch circle and number of pi areas hit by pellets

in Table 2. Figure 2 illustrates the appearance of an actual pattern of the better type, with 1¼ ounces of No. 6 shot.

A mask as described above has been used to evaluate the averages of a series of patterns which were fired under controlled conditions to study the effects of small changes in pellets. All shells were fired over a measured range of 40 yards from the muzzle of the gun to the target, with a single-barrel-full-choke gun and during a single day to minimize the effects of changes in temperature and atmospheric pressure. The shells were specially prepared and were identical in all respects as to construction, priming, powder, loading, and crimping (no top wad). The only variable was in the type of pellets, which were nominally of No. 6 size and of the lead-antimony-arsenic (chilled) type, varying only in composition or method of manufacture. The pellets were designated as shot A, shot B, and shot C.

The three lots of pellets were not actually of the same size,

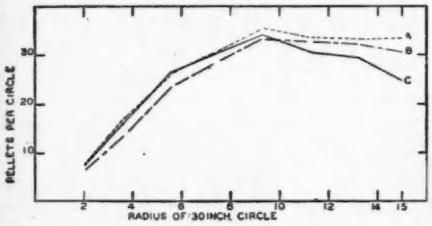


Figure 7: Graph showing distribution of pellets in each circle

and by weighing and counting it was found that the number of each lot of pellets in 1¼ ounces was as follows:

Shot A: 304 pellets
Shot B: 292 pellets
Shot C: 272 pellets

In loading the shells, pellets were counted for each shell loading, rather than using a weighed amount. A counted number of pellets was used to produce a higher accuracy in the evaluation of pellets to be found in a pattern. All shot were loaded ahead of 3¾ drams of powder in 2¾-inch shells.

The averages of test data are tabulated in Table 3. From the average total number of pellets per pattern the average-percentage pattern may be calculated as follows:

$$\text{Shot A: } \frac{218}{304} \times 100 = 71.7 \text{ per cent pattern.}$$

$$\text{Shot B: } \frac{200.9}{292} \times 100 = 68.8 \text{ per cent pattern.}$$

$$\text{Shot C: } \frac{199.4}{272} \times 100 = 73.3 \text{ per cent pattern.}$$

A difference of 4.5 per cent exists in the average pattern for shot B and shot C, and one would therefore conclude that shot C was superior (on the basis of percentage pattern) and should be used in preference to A or B. But let us look further to see if shot C is really a superior performing pellet.

Figure 4 shows the total number of pellets counted inside the 30-inch circle for each individual round fired (shot A, 100 rounds; shot B, 87 rounds; shot C, 88 rounds). Figure 5 shows the total number of areas which contain pellets, for individual patterns. An examination of Figure 4 indicates that

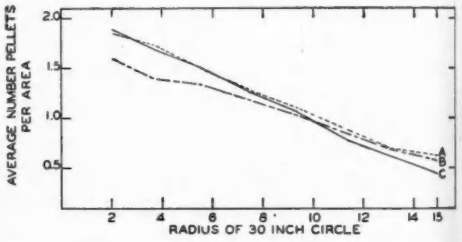


Figure 8: The average number of pellets hitting in each pi area

individual patterns vary over quite a large range from minimum to maximum number of pellets to be found in the 30-inch circle, and it also indicates that no periodic cycle exists in the variation of pellets to be found. Figure 4 also indicates the futility of firing a few rounds to determine pattern percentages.

TABLE 3.—AVERAGE DATA FOR THREE TYPES OF PELLETS

Shot No. Patterns	Circle No.								Av. Total Pellets per Pattern
	1	2	3	4	5	6	7	8	
Shot A									
100 Patterns									
1*	7.4	17.4	26.6	30.7	35.4	33.6	33.2	33.6	218.0
2**	3.5	8.2	13.7	17.3	21.3	22.5	23.3	24.4	134.0
Shot B									
87 Patterns									
1*	6.3	14.0	23.9	28.4	33.1	32.4	32.4	30.5	200.9
2**	3.1	7.7	13.2	16.6	20.2	21.7	22.9	22.5	128.0
Shot C									
88 Patterns									
1*	7.5	16.9	26.8	30.3	34.0	30.5	29.2	24.6	199.4
2**	3.4	8.0	13.5	17.0	20.2	20.1	20.6	18.4	121.1

* Average number pellets in each ring per pattern.
** Average number of areas in each ring containing pellets per pattern

Suppose rounds 73 to 82 inclusive were fired for shot A. These 10 patterns average 75.0 per cent. Or suppose rounds 40 to 49 inclusive were fired for shot C. The ten patterns average 77.5 per cent. Furthermore, Figure 4 indicates that shot A and shot B give more uniform patterns and with less variation between individual patterns than does shot C. Figure 5 shows that the number of areas containing shot are more uniform and with less variation, pattern to pattern, for shot A and B than for shot C. In other words, shot A and B are more reliable in producing uniform patterns than is shot C.

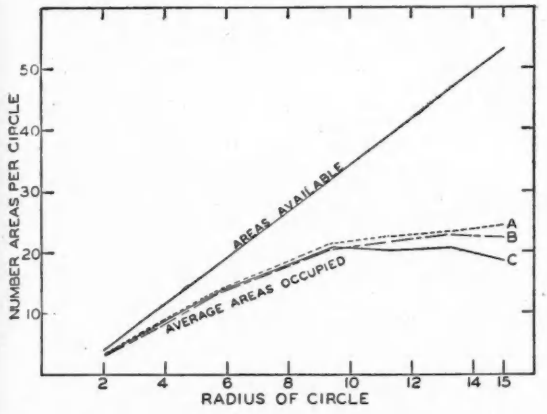


Figure 10: Average number of pi areas containing pellets against total number of areas in each of inner circles

Figure 6 shows the correlation between the number of pellets to be found in the 30-inch pattern and the number of areas containing pellets. In other words, does the pattern with the highest number of pellets also have the highest number of areas containing pellets? The correlation is not perfect but it is at least fair. There is a tendency for the patterns with the least number of pellets also to have the least number of areas containing shot, or vice versa, but a rather large spread is involved. However, the correlation between number of pellets and number of areas is sufficiently positive to justify the use of the mask as proposed for evaluating the distribution of pellets in patterns.

The average number of pellets to be found in each of the eight smaller circles within the 30-inch circle is plotted against the radius of the basic circle in Figure 7. The curves in Figure 7 show that the number of pellets to be found in each circle is increasing from the center outward to a circle of approximately 9-inch radius (36 per cent of area of 30-inch circle), and thereafter the number of pellets to be found in each circle decreases with the increase in radius. These curves should not be interpreted to mean that an increase in shot concentration is to be found along the 9-inch radius because the area is increasing at a greater rate than the increase in the number of pellets to be found. This latter information is shown in Figure 8, where the average number of pellets per area (number of pellets in each circle divided by number of areas in each circle) is plotted against the radius of the basic 30-inch circle. In Figure 8 we find that the first circle contains an average of approximately 1.9 (shot A) pellets per area and that the number of pellets per area decreases to approximately 0.6 pellet per area in the eighth, or outside circle. Another way of presenting the same data is shown in Figure 9, where the average number of square inches per pellet (square inches of area in each circle divided by average number of pellets in each circle) is plotted against the radius of the 30-inch basic circle. Figure 9 shows that on the average, shot A gives a density of one pellet for every 1.7 square inches in the first circle but only one pellet per 5.0 square inches in the last, or eighth, circle. Thus the density of shot is roughly three times as great per unit of area in the center as compared to the outside of the 30-inch pattern, and one is not justified in assuming that the density of pellets per square inch of pattern area is uniform over the entire pattern. These data indicate the desirability of keeping the target as near the center of the pattern as possible. In other words, the chances of hitting and killing are three times as great at the center as compared to the fringe of the pattern. Furthermore, shot C has, on the average, only one fourth the density in the outside circle as compared to the center circle; and the center density is not better than the density for shot A; this in spite of the fact that shot C produces the highest average percentage pattern.

Figure 10 shows the number of equal-sized areas containing pellets as a function of the radius of the 30-inch circle. The shapes of the curves are similar to Figure 7, which shows the number of pellets per circle as a function of the radius. In Figure 10 it will be noted that the number of areas containing pellets is increasing from the center to a radius of 9 inches and thereafter the number of occupied areas is decreasing. There is also shown in Figure 10 the number of areas available for a comparison with the number of areas containing pellets. This comparison further demonstrates the decreasing density of pellets from center to outside of the basic 30-inch circle. The average percentage of areas containing pellets in each pattern may be calculated as follows:

$$\frac{\text{average number areas with pellets}}{\text{total number of areas in pattern}} \times 100$$

Table 3 shows that shot A averaged 134 areas per pattern, shot B averaged 128 areas per pattern, and shot C averaged

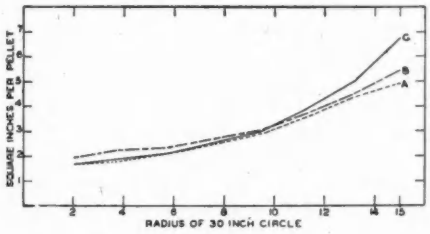


Figure 9: Average square inches per pellet in circles

121 areas per pattern. The average number of areas containing shot is as follows:

Shot A. $\frac{134}{225} \times 100 = 59.5$ per cent.

Shot B. $\frac{128}{225} \times 100 = 56.8$ per cent.

Shot C. $\frac{121}{225} \times 100 = 53.8$ per cent.

Although shot C had the highest average percentage of shot per pattern, it has the lowest average percentage of areas containing pellets. These data indicate that, in spite of the higher pattern percentage, shot C would actually produce fewer hits on a target by some 6 per cent.

Because there is a difference in the number of pellets to be found in the loads with each of the three types of shot, we may attempt to correct the values for per cent of areas containing pellets by allowing for an equal number of pellets per shell for each type of shot, as follows:

Shot A. $\frac{304}{304} \times 59.5 = 59.5$ per cent.

Shot B. $\frac{304}{292} \times 56.8 = 59.1$ per cent.

Shot C. $\frac{304}{272} \times 53.8 = 60.1$ per cent.

After making this correction, there remains no significant difference in the three types of pellets. However, it must be remembered that shells are loaded by weight of pellets and not by count. In other words, if we based our conclusions upon equal pellet counts, then shot C would require 1.4 ounces per shell.

It seems to be entirely reasonable that an index of shot-shell performance can be calculated by combining the data from the average number of pellets per pattern and the average number of areas containing pellets per pattern. Such an index would be calculated as follows:

Shot A. $\frac{(218 \text{ (pellets)}}{(304 \text{ (pellets)}} + \frac{134 \text{ (areas)})}{225 \text{ (areas)})} \times 100 = 65.6$

Shot B. $\frac{(201}{(292} + \frac{128)}{225)} \times 100 = 63.9$ per cent

Shot C. $\frac{(199}{(272} + \frac{121)}{225)} \times 100 = 63.4$ per cent

A performance index as proposed above takes into account the number of pellets included in a target of given area, and also the distribution of pellets over that area. Based upon the above performance-index numbers, shot A is superior to either of the other two types of pellets, and the differences in index numbers are significant.

The data produced by the use of a mask, as proposed, indicate that there is much more information needed for a proper evaluation of patterns than a simple expression of the percentage of pellets contained in the 30-inch circle. The use of such a mask shows the variation in the density of pellets from the center to the circumference of the circle. The data also demonstrate that the probability of hitting a target at our basic range of 30 yards rapidly declines at a distance of more than 9 inches from the center of the pattern, or that the best pattern and concentration of pellets is contained within a circle of 18-inch diameter. The use of such a mask does not, however, give positive information on the tendency of shot to clump or leave holes within a pattern. However, the larger the number of areas containing shot, the less is the tendency for holes to appear in the pattern.

These data demonstrate that the proposed method is selective and capable of showing variations in performance by small variables in shot shells. The method can be extended to evaluate patterns produced by individual guns or to evaluate patterns produced by various loads in a given gun. An interesting experiment would be one designed to test the validity of the statement that shotgun barrels are selective with respect to the size of pellets fired. In general, my experience indicates that the larger the pellets, the higher will be the percentage of pellets to be found in the 30-inch circle, but this does not necessarily indicate that the larger pellets produce better patterns for a given size and type of game. ♦ ♦ ♦

Big-Game Rifles in Alaska

(Continued from page 22)

Another hunter I was with, who shot a .35 Whelen Springfield, had the same trouble. His rifle wouldn't shoot accurately, and we found that, because of loose guard screws, the rifle had completely kicked the recoil abutment in the stock loose and ruined it.

With the flat of the receiver bearing firmly and squarely on its bed in the stock, I have got the best results in barrel bedding by having the barrel bear very evenly in its groove the entire length of the forearm. I take particular pains to have the barrel bear firmly for several inches forward of the receiving ring and at the foreward end of the forearm. If a forearm screw is used, and with the barrel bedded thus I almost always find it necessary to place a shim of heavy paper or brass on either side of the forearm screw in the barrel channel to relieve stress and preclude a "bent" barrel. By tuning up a rifle this way and getting it right, it should make its best groups and, more important, deliver its best *practical* accuracy and shrink its composite group by maintaining a more uniform center of impact under field conditions.

If the rifle is a lever action, make sure that all screws, including the stock bolt, are tight. If it is a featherweight take-down model, then forget it for long-range accuracy!

To shrink the composite group still more, always in field shooting make sure your rifle never touches anything but your own two hands and shoulder while firing a shot. To rest the forearm over a log, stump, rock, or what have you is fatal to fine accuracy. And a man who will rest the naked barrel on a hard object should be hung to the nearest limb! Take a rest, to be sure, at every opportunity, but keep your hands between that rifle and all solid objects. Furthermore, your light rifle will perform more uniformly if you will train yourself to hold it as nearly as possible the same for each shot.

After you have done all these things and you know your rifle is properly tuned up and if you wish to shrink that composite group still more, then you must go to heavier barrels. Everything else having been taken care of properly, the heavier the barrel the more accurate the rifle will be in field shooting. Light barrels are a curse, but we must put up with them, because no one wants to pack a heavy barrel or a bull gun around for wilderness big-game shooting. So we must do the best we can, and by all means recognize the rifle's and your own limitations. Keep away from extra-light or featherweight barrels if you want long-range accuracy. The old DCM Springfield barrel was a nearly ideal weight for an all-around light hunting rifle of high power, and a hunting rifle for long-range work should be no lighter.

Take a look at the dyed-in-the-wool varmint shooter. Note his heavy barrel. He is not packing that heavy barrel around for nothing. Also, note his careful and uniform methods in hunting and . . . but that is another story. And before you fall asleep I'll quit! ♦ ♦ ♦

MAKING TRAINED FIGHTING MEN OF FIJIAN NATIVES WAS AN UNUSUAL ASSIGNMENT, BUT IT PAID OFF IN THE BATTLE OF THE PACIFIC . . .

FIJI SCOUTS, Marksmen

By MAJ. CARL W. HEINMILLER

ONE OF THE NEGLECTED CHAPTERS of World War II is the extent to which natives were used in jungle warfare. Although many of them were employed as guides and labor troops, there were many others who excelled as guerrillas and raiders. In the early stages of the Pacific war, I was assigned to the organization and training of the famed Fiji Scouts. Known in official records as the South Pacific Scout Company and the Fiji Defense Regiment, the boys made a great record as commandos and scouts.

After struggling through the jungles for several days in July of 1942, I finally arrived at an outpost of the Eastern Independent Commandos at Viti Levu, in the Fiji Islands. My job was to form about 400 natives of the surrounding country into guerrilla bands, in the event that the Japs should attack. When I arrived, they looked like a pretty sad outfit as far as equipment was concerned. Clothing was not a major issue, but the men did want something to make them look like soldiers—and weapons were limited to Enfield .303 rifles that had been converted to .22 caliber. When I arrived, I brought with me three tommy guns, two Garands, and a Browning Automatic Rifle. That was all we had.

I spent a few days observing the training of the Fijian troops and was so astounded at their jungle craft and ability to move in that mass of twisted green, that I did not notice too carefully the teaching of the New Zealanders in preliminary marksmanship. The natives were the absolute masters of the bush. The Fijian is a man of tremendous physical stature. I had expected him to be rather short, but a six-footer was the usual size. The muscular development was superior to any people that I had ever seen. Being fuzzy-haired, they could be seen at rare times as they moved, but in battle they cut their hair close to their head. I was enthralled with the idea of a sound-

less weapon, as the men could hide so well that it was impossible to see them. Having been a bug on archery, I baffled the village with some simple feats. I tried concealing myself and shooting from that position, believing that the natives would not be able to find me. They found me so easily that I was amazed. It was not long before I became confident that a Fijian could find you by smell alone. If we could have had smokeless and flashless powder, we would never have been observed.

The first day on the range was novel indeed. We walked out to a convenient hillside that was steep enough to assure us that nothing more than a goat, and a good one, could be up there. I explained what was needed to my First Section Chief, Joni Roko, a beautifully built native of about six foot three. He rattled off the orders in Fijian and the boys went to work with cane knives and machetes. In a short time they had all the undergrowth cleared over a thirty-yard range. The night before we had made up some six-inch targets on eight-by-ten paper and set them up on any material available.

The instruction began with the New Zealanders' giving the Fijians a handful of .22's and telling them to shoot. I wasn't quite sure whether these men had had any preliminary marksmanship training or not. Knowing that "face" was all-important for the first few days, I gave in to an ANZAC Sergeant to save any embarrassment that might be caused by too big a change or repetition. The first ten men went to the firing line. The Enfields were single shot and I was quite surprised to see one round go into the gun and the other four rounds into the mouths of the natives! The order to commence firing was given.

I'll never forget the positions that were assumed. Of the seventy men in the Veria detachment, each position was different. The stock of the rifle found its resting place everywhere from the crotch of the elbow to the base of the throat. Most of the natives wanted to rest the gun on something so that they could keep both hands around the stock. Their powerful hands would wrap around the stock and trigger guard till it looked like an overlapping grip that a golfer would use. Some of the men would sight with the right eye, some with the left, and many with both.

I questioned the New Zealander on the styles that were allowed and he jauntily replied that it didn't make any difference, the natives were poor shots anyway, but better with a knife. After the first order had fired, the men went forward to check their scores. Squeals of delight pierced the air and the men jabbered excitedly about their shooting. Thinking that they may have shot fairly well, I went forward to see what had been done. Not a shot had hit the six-inch circle but the pleasure was due to the fact that all men had hit the paper at least once.

I called all the men around and spent the next ten minutes trying to get one point across. To shoot well, it was necessary to take a proper position. It didn't take long to see that the men were skeptical. The Fijian is rarely affected by talk. Action is what he respects. The time for action had arrived. A demonstration was needed to impress these boys.

My American sergeants were all rated as experts with the rifle, so we took positions on the line and fired a group of five shots each. The bullseye was of good size and the distance small. Each of us managed to hit it. For a moment it seemed that we had failed, but when the men clustered around the targets they were astounded by shooting that any three-month rookie from a training center could have done. Wanting to impress them more, I told one of my men, Sergeant Adams, that I wanted him to shoot a can off my hand at fifteen yards. The can was of good size, but Adams was rather upset as he had never done anything like it before. The act went off as planned but we did not repeat it as the bullet hit the lower portion of the can. But the mission was accomplished.

The Fijians' interest was increased tenfold. They were anxious to be able to shoot correctly. We spent long hours on correct positions, breathing, and trigger pull. Finally, the men were allowed to fire again. The improvement was terrific. The natives were like boys on Christmas Day. We finished up the day's shooting and I again impressed upon

A member of the 1st Fiji Defense Regiment. Fijian Scouts fought in both Bougainville and New Georgia

them the importance of good shooting. It was time to call it a day and I told the Kewie Sergeant to take over and I went back to camp.

Upon arrival, I heard some .22 firing and wondered what was going on. It wasn't long before I found out. The Fijians had tried shooting a can from one of the group's hand and it was hit off center. The can flew up and cut the cheek of the holder. That stopped the can shooting trick.

Two of the commando detachments were under New Zealand officers, and they had full charge of all training. I made several suggestions on marksmanship but they were shrugged off. The troops of these detachments had the same "ways" of shooting that my detachment had.

After insistent requisitions were sent in, we finally were given an allowance for the tommy guns. The Fijian Defense Command was trying to keep most of the .45 ammunition for its own use as they had received .45 automatics. There were some bitter words spilled over this deal, but in the end I got my allowance.

The training of the Fiji Commandos was scheduled on six days out of each month. I had four detachments to train, and used the same training program for each group, which made it easy to set up the schedule. When I arrived back at Veria, my base detachment was ready for the second phase of training, which included the tommy gun. I was quite surprised when I found the group had assembled the day before and wanted to start shooting early.

Once again we went out to the "range." In a month's time, the vegetation had completely grown up again. After clearing the land, we lashed some crude crosses of one-inch stock together and stuck them in the ground. We then cut banana leaves and tied them to the crosses and used them for silhouette targets.

We gave the usual preliminary instructions. I called Joni Roko out and gave him a tommy gun to shoot. The troubles began all over again. I could not keep any of them from shutting their eyes after the first shot. That first shot would hit the target, and the rest of the burst would plow into the ground. We tried every trick we knew, but it was no use. I was so disgusted that I told them to get the .22 Enfields. I turned the range over to one of my sergeants, and tried to figure out what to do.

Sergeants Adams and Cannon of my staff came over and I said, "I can't understand it. This gun kicks less than an M1."

"But these men have fired only .22's," Sergeant Cannon said.

That fact had slipped my mind entirely. I said, "Well, that's true, but there's very little kick to this baby. I can fire this thing off of my chin!"

A skeptical look passed across Adams' and Cannon's faces, as they exchanged looks.

"I'd like to see that done, myself," said Sergeant Adams.

"Me, too," added Cannon.

I had seen the trick done several times, but had never done it. I began to wonder just how tough it would be. I knew that the Cutts Compensator would keep it from rising too much. I then noticed that Joni Roko was listening intently. That was the deciding factor. It had to be done.

As soon as the .22 firing was over, we called the men into a circle and told them the story of how easy it was to fire a submachine gun. Expressionless faces turned my way. They had tried this stuttering weapon and were afraid. I explained that there wasn't anything to be afraid of, that it was easy to fire, that you could hold it on your chin and shoot it. The Fiji boys rolled their eyes and jabbered like monkeys in a fire. I loaded a gun and put it on single shot, and after much squirming around, I managed to get the gun on my chin and still be able to look through the sight. It was necessary to turn my head on an angle to do this, but I managed it.

I fired one shot. Much to the surprise of all, including myself, I did not fall down. By puffing out my lower lip I was able to take up most of the shock. I fired a few more shots and then told the men I would fire it on automatic. The men were motionless. My own sergeants were slightly stunned by the action. I turned the gun on automatic and fired a burst. We went forward to look at the target and found that most of the shots had scored on the banana leaf. That was all we needed. The firing improved by leaps and bounds. By teaching the men to shoot in short bursts, they were able to keep their eyes open.

The most amazing demonstration occurred when we ran the men through a course in sniping. We set up several courses in the jungle. One of them extended down a trail for 100 yards. I had ten setups that, when sprung, would throw up a silhouette target. I used natural material for the trips and the natives spotted them and stepped over them. The only thing that would work was black thread attached to an electrical trip. The smallest amount of pressure tripped the trap. To make it more realistic, I added a one-second Primacord fuse with a small charge. That gave the "stalker" time to fire first.

We ran ten men down the trail without making any suggestions. Each man did exactly the same thing. As they tripped the wire and the target flew up, they immediately dove off the trail into the bush. Try as we would, we could not get them to shoot first. I was very disturbed about my "failure" for a time, but soon discovered that, for the natives, those tactics were perfect. As soon as a native hit the bush, he would continue to move like a pheasant until he could get a shot at the target without being exposed.

Another sniping course was from trees. This proved very interesting, but upset me again due to the unorthodox styles that were developed. The men were allowed to set up an ambush in the trees and the target carriers moved up to a given point and set up their targets. This given point was within fifteen or twenty yards of the "hidden" snipers. After the targets were set up, the "carriers" moved beyond and out of range. A whistle signal was given and the men opened fire. Some of the styles were very funny. Some of the men would peek out and shoot and then disappear. Many would take the rifle with one hand and shoot it in the general direction of the target. Once again, the men slipped to odd, abnormal positions. A demonstration was given and slow movement was stressed. It was an improvement but the men still held their weapons in varied positions.

After several weeks of training the men developed new styles again. In all positions they were able to shoot well, so thought it was perfectly all right. We made no attempt to correct them this time, but stopped all target practice till we were able to beg, borrow, or steal enough .30 caliber ammunition for a few rounds per man. I found that a P-39 had cracked up in the jungle, and took a trip out to the site of the wreck. After six hours of digging, we uncovered about a thousand rounds of .30 caliber ammunition, and were able to salvage a little under 400 rounds.

With our tongues in our cheeks we told the troops that we would fire the .30 caliber. The Fijians took the news calmly, believing that there would not be any difference in the Enfield .22 and the M1. We asked for volunteers for the first five rifles, which were all we could muster. Almost all of the men stepped up. The guns were loaded and instructions repeated in the same words that were used for the preliminary firing.

"Men, remember how you are supposed to hold this gun. Hold it right and you can hit the target. Hold it wrong and it will shoot badly." Joni Roko interpreted the words, which had to be as simple as possible.

The first volley was fired almost as one shot. Slapstick comedy never saw anything like the reaction. Each man had been holding his rifle in his own particular pose. Each one dropped his gun like it was red-hot, jumped to his feet and grabbed a part of his arm, face, or shoulder.

Once again we called out the first five. They were a sorry-looking bunch. Two split lips, one puffed eye, a badly swollen collar bone and a bruised biceps. They were such a meek-looking bunch that we could hardly keep a straight face, but told them that we would fire five rounds apiece and show them it could be done right. I then told my men to strip to the waist. We then fired five fast rounds and showed that it could be done if the rifle were held properly. The Fiji boys swarmed around us and made a thorough inspection to see if we had smashed lips and eyes. Once again the idea was effective, but it was a long time before they could shoot without flinching considerably.

A short while after that, my division, the 37th, was alerted to leave Fiji and move to Guadalcanal. A few days after the operation into New Georgia, I was called back to the scouts. It was with great anticipation that I went, and with enthusiasm that I was received. Our training paid off. As the records show, the Fiji scouts harrassed the Japs night and day. We fired very few rounds, but killed a great number of Nips. It was rarely necessary to fire more than once at a Jap. The few losses that the Fijians had were due to artillery and mortar fire. We never lost a man on patrol work. The men were able to get very close before they fired, and they did an excellent job.

Many times the scouts would fire one-handed. Naturally, they were not very accurate but they were moving all the time to a hiding place. If those natives had been brought up with guns instead of knives, they would undoubtedly have been expert marksmen. With flashless and smokeless powder, they would never have been found. As it was, with only a moderate amount of training, and moderate equipment, they distinguished themselves in one chapter of the long battle to down the Jap invaders. ◆ ◆ ◆

Woodcraft for Riflemen

(Continued from page 16)

Where this is true in the open, it is doubly applicable in the heavy cover. The casual shaking of a bush, usually the first sign a deer has of the hunter's presence, is not nearly so alarming as if that bush were violently shaken by a blundering, fast-moving hunter. For, just as a sound can be *in place*, and not be too alarming to the game, so too, can movement be in place.

Deer and other game do not move through heavy cover without some disturbance of the brush and bracken. Other game is used to this just so long as it is in place, in reference to time and territory.

Putting these things into practice in the game field adds up to a reasonable chance of making a kill. Take the average skilled woods hunter, the rifleman who has a reputation as a deadly game shot, and put him under the compelling necessity of taking the same shots that the inexperienced rifleman must take as a matter of course, and he will do little better than the greenest tyro in the field.

The experienced hunter is getting easier shooting because he is not alarming the game to any great extent. When he puts up a deer it is usually moving much slower than the one put out by the tyro, and his shot is at much shorter range. This is where an accurate knowledge of still hunting will pay the average rifleman big dividends.

PITY POOR ANGUS MC DOPE, WHO THOUGHT HE KNEW HOW TO PACK A DEER OUT OF THE WOODS. PLAY SAFE. DON'T BE A DOPE!

The best foundation for acquiring this technique is in forgetting much of the traditional "woodcraft" of the Leatherstocking school. There is nothing so mysterious about woodcraft that the average, once-a-year woods hunter cannot easily acquire all he needs. It is just a matter of bringing the same amount of application and intelligence to bear that he must use to become a fairly proficient target shot.

And once having done that, the once-a-year hunter can put himself on a par, as far as deductions are concerned, with the majority of the old-timers. The sign is there; all he has to do is learn to read it in relation to the circumstances under which it was made. There's nothing too difficult in that. ◆ ◆ ◆

The Old Coach

HUNTING HINTS, AND SOME TALK ABOUT TRIGGERS

THE HAIR TRIGGER of the hardy American riflemen who fought under Cresap, Sevier, Morgan and many another of our great riflemen leaders, was not an American invention, as many of us think. History says that set triggers were in use on crossbows many centuries ago. Regardless of this fact, we first find them on our own "Kentucky" rifles. The first American rifles, the world's first real rifles, by the way, came out with plain triggers, similar to those on the old smoothbore muskets. However, later rifles began to appear with set triggers, especially squirrel rifles, and apparently during the last days of the Kentucky nearly all of these rifles were fitted with "hair triggers." Just what is a hair trigger? No doubt this title came about because the best of these triggers could be let off almost with the touch of a hair. Mechanically, the set trigger is a layout that includes a little hammer, or lever, which is cocked the same as any gun lock, and when released flies up under the force of a stiff spring and knocks the sear out of the notch of the true hammer, or cocking piece.

The simplest and commonest set trigger consists of a front and rear trigger set in a trigger plate. The rear trigger, an inch or so behind the front trigger, carries a long wide blade on its front limb and is kept raised up under pressure of a spring. The front trigger is also under pressure of a spring and in its back face is a notch. To cock or set the trigger, the rear trigger is pulled back until the little notch in its blade catches in the notch of the front trigger. Now, when the front trigger is touched it releases the long blade of the rear trigger which snaps up and knocks the sear from the notch in the true hammer. More complicated designs were made, and in such triggers as were found on Winchester and Stevens single-shot rifles, the front trigger was so arranged that it could also be used as a simple trigger without having to be set. On Kentucky rifles, the front trigger could not usually be used separately, but had to be set every time the rifle was fired. The Kentucky rifleman, I am told, carried his rifle at full cock and only set the trigger when he wished to make the shot. To unset the triggers, if he decided not to shoot, he pulled back on the rear trigger, touched the front trigger and eased back, carefully, the rear trigger. To let the hammer down he would set the triggers and then let the hammer down easy as he touched off the front trigger. On some later rifles, the Stevens, for instance, you held the hammer with your thumb and touched the front trigger to let the hammer down after the triggers have been set. These triggers are known as double set. There is another type with two triggers which were very close together and the rear one was pushed forward to set the front one. Then there is a single-set type, with one trigger which is pushed forward to set the trigger and then touched normally to fire.

There is really no magic in set triggers. A set trigger is not pulled or squeezed—it is touched. In all these triggers there is a small screw for adjusting the touch weight. Most experienced riflemen using these triggers set the trigger just before they lift the rifle to the shoulder. Many of them then flutter the trigger finger, touching the trigger if the tension will permit, and when the sight is right the flutter goes farther and the trigger is tripped off. Others hold the finger almost touching the trigger and when the sight is right touch it, almost mentally you might say. For the man trained in their use they certainly mean points to a score, but lacking that training I suspect there would be a lot of wailing and gnashing of teeth on the firing line. After observing the average modern deer hunter over the years and in several States, I do not recommend or even suggest them for a hunting rifle. To get the most from set triggers one must know the score, but such skill is really of no great value as training for use of a regular trigger. Don't get all het up over getting set triggers. For everyday rifle shooting stick to your regular trigger as on your small-bore and deer rifle.

October is the month for the deer hunters. No doubt a lot of you fellows will go hunting, and among you will be quite a few who will be big-game hunters for the first time. In either event be a real, above-the-board sportsman and not a rabble-rouser armed with a rifle.

Have a rifle, your own if at all possible, that handles a cartridge powerful enough for that big buck if you see him. It might be a .30-30, a .35 Remington, a .250 or .300 Savage, a .30-40 or a .270, or another suitable cartridge. Unless you have done a lot of .30-'06 shooting, this and others similar may have too much recoil for you. You don't need a 16-inch naval gun to kill a deer. Unless you have hunted big game with a scope sight, you had better stick to a good aperture rear and bead front, especially if you are hunting in the East.

Be sure your rifle is sighted in for about 150 yards for the .30-30 breed and 175 or 200 yards for the 3,000 foot kind. If your hunting will all be in timber, sight any of these rifles at 100 yards if more convenient. The shots you will get, 99 times out of 100, will be under a hundred yards. Don't take these long-range buck stories too seriously. Be a hunter, stalk as close as you can and then fire from the steadiest position you can get into.

Smooth it; don't rough it. Take a good bed and plenty of good wholesome grub. Carry a medium-sized belt knife or a heavy pocket one; if hunting in a really wild country, hang a light ax on your belt. Carry a filled waterproof matchbox and never take a match from it except for an emergency. For everyday use carry matches in something else, but keep those dry ones; they can save your life. Wear old, well-fitting shoes or boots, in good condition; never start off in a pair of new, unbroken shoes or boots. Know your game laws and obey them; it is to your own success and interest to do so. And if you do get that shot you dream about, don't shoot at the deer as a whole. Unless you are an old hand at the game, try to place your bullet in the chest about two-thirds down; right close to the elbow joint. Never stop shooting until your game is down and has definitely stopped kicking. Be clean and fair, whether you are hunting for meat or for a trophy. Keep and leave a clean camp. Put out all fires. Leave the forest as you will want to find it again next year. Good hunting. ♦ ♦ ♦

POWDER SMOKE: THE NEWS DESK . . . READERS COMMENTS

GUNS AND GUNNING

By CAPT. PAUL A. CURTIS

The late Captain Curtis knew his guns—all kinds—pistol, rifle and scatter gun—and he was an interesting writer. In 1934 he brought out a book that gave some sound advice on the fundamentals of the shooting game in its various ramifications. While the book was aimed at the beginner, it inevitably contained much material of interest to every shooter.

This excellent treatise by one of the old masters of the game is again available in a reprint which appears to be identical in contents with the original, except that a 28-page introduction by Nash Buckingham has been added.

The reader soon becomes aware of the fact that the book was written some years ago. For example, it suggests the .30-40 cartridge in the '95 Winchester, a gun which, of course, is no longer made and has not been for some years. In like manner the recommendations necessarily omit the later and more popular calibers and models, which have come on the market since the book was written in 1934.

While a small percentage of the material in the book is out of date, the larger part covers fundamentals which do not change with the passage of time. There is much valuable material on such subjects as Game Shooting and Judgment of Range; How to Hit 'Em With a Rifle; Fitting the Shotgun; Trap and Skeet Shooting; Grouse Shooting in Scotland; Deer Stalking in Scotland; Moose Hunting; Sheep and Goat Hunting; Shooting Formalities, etc.

Altogether, the book is readable and useful to any shooter. If you do not have the original in your library, you will want a copy of this reprint.—J.S.H.

(Published by Alfred A. Knopf, Inc., New York. Price $5.00)

PATERSON PISTOLS

BY JAMES E. SERVEN

In 1836 the manufacture of Colt revolvers began in Paterson, New Jersey, and continued there until the company went bankrupt in 1842.

When the Paterson venture failed, the patents reverted to Samuel Colt, who resumed manufacture at Whitneyville and later at Hartford.

Apparently there were some 2,000 Colt revolvers made at Paterson, of which some 125 are still known to be in existence in the hands of museums and collectors. Naturally the Paterson Colts are of prime interest to collectors and bring very high prices.

Paterson Pistols is a monograph designed to supplement the previously existing literature on these arms. Among much other interesting material, is a study into the characteristics of approximately 100 Paterson pistols. It contains interesting tabulations showing the percentages of these guns in the four calibers, .28, .31, .34 and .36, with the numbers of each having various distinctive characteristics, such as rounded cylinders, straight cylinders, large grips, small grips, etc.

This is a 31 page pamphlet, containing 35 excellent illustrations.

$3.00 from Carl Metzger, 2305 Canton St., Dallas, Tex.—J.S.H.

DCM PURCHASES

The DCM has announced that all individual purchase orders received after October 1 will be returned to the sender. At present, the DCM has such a backlog of orders that no more can be handled. Hence, until further notice, no individual purchase orders will be processed.

Club orders for ammunition can still be filled, as in the past.

COMING EVENTS

OCTOBER

5-6, New York (C)—Fall Rifle Championship Tournament, at Bethpage. V. B. Cleaver, Box 356, Hicksville.
6, Illinois (B)—Annual Fall Harvest Rifle Match. Robert Jordan, 50 Waukegan Road, Deerfield.
6, Kentucky (C)—Falls Cities Open Pistol and Revolver Championship, held at Jeffersonville, Indiana. J. R. Anderson, Jr., 1063 Bardstown Road, Louisville.
6, Illinois (Unregistered)—Bliss Trophy Team Match, at Fort Sheridan. Thomas M. Blakemore, 5004 W. Huron Street, Chicago.
6, California (Unregistered)—Oakland Monthly Pistol Tournament. John H. Valerga, Jr., 3800 Cerrito Avenue, Oakland.
6, California (Unregistered)—Southland Pistol Matches. R. S. Pease, Route 3, Box 84, San Diego.
6, Michigan (C)—Fall Smallbore. Lewis A. Tyner, 1738 Dee St., Wyandotte.
6, Pennsylvania (C)—Fort Hand Rifle Tournament. G. W. Rupp, 1029 Hancock Ave., Vandergrift.
6, New York (C)—Fall Smallbore. E. H. Matteson, Upper Lenox Ave., Oneida.
12, Massachusetts (Unregistered)—Offhand Championship. E. Rankin, Reading.
12-13, Georgia (C)—South Atlantic Smallbore Rifle. Charles P. Simon, Box 84, Ogeechee Road, Savannah.
12-13, New Jersey (C)—1st Annual "Swiss 500" at Union City. Walter Tanner, 119 Hobart Street, Ridgefield Park.
12-13, West Virginia (C)—9th Annual Mountain State Pistol. R. A. Simpson, 212 West 10th Street, Parkersburg.
12-13, Oklahoma (C)—Oil Capital Fall Smallbore. Ray Whitaker, 505 Central Bldg., Tulsa.
13, Illinois (Unregistered)—I. S. R. A. Club Qualification at Fort Sheridan. Thomas M. Blakemore, 5004 W. Huron Street, Chicago.
13, Pennsylvania (C)—Outdoor Small-Bore at Chester. Mary Jane Oster, 2802 Township Line, Llanerch.
13, California (Unregistered)—Bay District Smallbore. C. DeWitt, 3701 Lincoln Ave., Oakland.
13, Missouri (C)—19th Annual Greater St. Louis Smallbore Rifle. H. Winston McClure, 7046 Dale Street, St. Louis.
13, Arizona (C)—Arizona Sectional Pistol Tournament at Phoenix. Mack Weiss, Box 1024, Prescott.
13, New York (C)—Smallbore Rifle Tournament. Edw. R. Burmeister, Canandaigua.
18-19, North Carolina (B)—North Carolina State Smallbore Championships, at Greensboro. Mrs. Alice D. Molt, 403 Charlotte Street, Asheville.
18-19, Alabama (B)—8th Annual Alabama State Championships. J. D. Clem, 315 South 70th Street, Birmingham.
20, California (C)—Southern California Pistol and Revolver League. Jack Cornell, 662 Arden Avenue, Glendale.
20, New York (C)—Pistol Match, at Bethpage. V. B. Cleaver, Box 356, Hicksville.
20, California (C)—San Francisco Police Monthly Pistol Tournament at Lake Merced. Emile Dutil, 324 16th Street, San Francisco.
20, Florida (C)—Pistol League Matches, at Jacksonville. P. J. Hastings, Route 5, Box 375, Tampa.
26-27, Texas (C)—The Ada Zilker Robinson Annual Pistol Matches. O. L. Canady, 2502 Indian Trail, Austin.
27, California (C)—5th Annual Sacramento Valley Smallbore Rifle Championship. Melvin A. Koontz, 2208 Ninth Avenue, Sacramento.
27, Tennessee (C)—Volunteer Club Smallbore Tournament. W. W. Nine, 104 Underwood Place, Knoxville.
27, New York (C)—Smallbore Rifle Match, at Bethpage. V. B. Cleaver, Box 356, Hicksville.
27, New Mexico (B)—State Pistol. J. E. Palmer, Box 5100, Albuquerque.

NOVEMBER

1-2-3, Illinois (C)—Fourth Annual Midwest Gallery Pistol Championship, at Chicago. S. O. Kyvig, 227 East Richmond Street, Westmont.
3, California (Unregistered)—Southland Pistol Matches. R. S. Pease, Route 3, Box 84, San Diego.
9-10, Florida (B)—Florida West Coast Smallbore Championship. L. W. Abrams, 705 Prospect Avenue, Clearwater.
10, California (Unregistered)—Bay District Smallbore. C. DeWitt, 3701 Lincoln Ave., Oakland.
17, California (C)—Southern California Pistol and Revolver League. Jack Cornell, 662 Arden Avenue, Glendale.

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RICOCHETS

"U. S. PROPERTY"

Hollywood California.

Editor:

Can firearms stamped "United States Property," such as .45 automatic pistols and carbines, be acquired or owned legally by civilians?—F. B.

Any firearm stamped "United States Property" is subject to seizure by Federal officials unless the owner can show a clear bill of sale from the Director of Civilian Marksmanship or the proper Ordnance authority. Of course, in the case of obsolete arms such as the Krag this does not apply, although a number of them were seized during the early days of the war by Federal agents who did not realize that it was an obsolete weapon.

No carbines have been authorized for sale to civilians or military personnel so that all such weapons are definitely subject to seizure. .45 automatic pistols have never been authorized for sale through the DCM to civilians, but commissioned officers have for years had the privilege of purchasing such weapons as personal side arms. If the present owner has the original bill of sale, he does not need to worry about confiscation. Lacking such a bill of sale, however, .45 pistols which are stamped "United States Property" are quite likely to be seized because thousands of them have been stolen from Regular Army and National Guard Armories and from Coast Guard and Naval Depots.—ED.

BULLET ENERGY

San Francisco, California.

Editor:

I wish to call attention to a serious error as to basic physics in the article, "Expanding Bullets," by John Taylor in the June, 1946, number of THE RIFLEMAN.

Mr. Taylor begins his second paragraph with this statement:

"I wonder if anybody has ever attempted to compute just what proportion of a bullet's energy is expended on an animal, and what proportion is wasted, when it passes clean through. It would, of course, depend on a number of things; whether or not it was of the expanding variety and, if so, of what pattern; the extent to which it set up; its weight and the weight of the animal; the range at which the shot was taken; whether or not bone was struck; and, of course, its striking velocity at the moment of impact."

According to my recollection of basic physics, the kinetic energy of a moving object is expressed by the simple formula $E=MV^2$. E is the kinetic energy of the moving body (in this case, the bullet), M is the mass of the moving body and V is the velocity. It is seen, therefore, that velocity is the most important variable, as the kinetic energy—striking power—varies as the square of the velocity.

The problem proposed by Mr. Taylor, therefore, depends upon only two factors: (1) velocity loss, (2) possible weight loss of bullet in passing through the animal.

Let us see how this acts in a hypothetical case: a 200 grain bullet striking an animal with a velocity of 2000 f.s. passes out of the animal and leaves the body with a residual velocity of 1000 f.s., but without loss of weight of bullet. The residual velocity is half that of the striking velocity and the remaining energy is ½ squared or exactly ¼ of the striking energy, in which case the body of the animal has absorbed ¾ or 75 per cent of the energy stored in the bullet at moment of impact, and ¼ or 25 per cent of its kinetic energy is wasted.

If, in the process of passing through the body, the bullet loses weight, such weight loss will reduce the residual kinetic energy in the fragment passing out of the body by a simple arithmetical ratio. That is, if the bullet, or fragment thereof, emerging from the body at 1000 f.s. is only half the weight of the original bullet, the fragment emerging from the body will have its residual kinetic energy reduced to ⅛ or 12.5 per cent of the original and the balance or 87.5 per cent of the kinetic energy will have been absorbed by the body of the animal.

It is as simple as that. All the variables which Mr. Taylor seeks to introduce into the problem very probably do very materially affect the "shocking power" of a bullet but they cannot possibly affect the problem he proposes except to the extent that they *may* affect loss of velocity or substance or both when the bullet passes through the body of the animal.

COL. JOHN H. SCHAEFER, M. C.

Mr. Taylor's statement seems correct to us. If a bullet strikes an animal and passes all the way through, the energy left in the animal would be that carried by the bullet when it struck, less the amount carried by the bullet or any part of it when it left. The energy carried in depends on the bullet weight and striking velocity, and that carried away depends on the weight of the bullet or its fragment when it leaves and the speed it has at that instant. The energy left in the animal, and consequently the exit velocity, will be greatly affected by the sectional area of the bullet, its expansion or lack of it, its stability or lack of it, the striking or missing of bones, etc.

Similar factors are listed by General George R. Callender, Medical Department, describing "the application of the laws of physics to production of wounds" in his monograph, "Wound Ballistics," in the April, 1943 issue of War Medicine.

The computation Mr. Taylor mentions cannot be made with even a reasonable approach to accuracy, because while striking energy can be computed, the exit velocity of the bullet or its fragments cannot.

While the amount of energy left in an animal cannot be computed, *it can, of course, be* measured *under laboratory conditions with velocity-measuring instruments set up in front of and behind an experimental animal. Work of this kind has been done; see General Callender's paper mentioned above, also "Wound Ballistics" by Callender and French, published in the* Military Surgeon, *in 1935.*—ED.

TAX REGISTRATION

Camp Lejeune, North Carolina.

Editor:

Years before December 8, 1941, Guam time, the Governor of Guam, in conjunction with the Police Department and the Head of the Department of Records and Accounts, instituted a program under which all owners of firearms and radios would register said firearms and radios with the Police Department. By this the Head of the Department of Records and Accounts could levy a tax on items registered according to caliber and number of tubes.

This law was passed for the general purpose of raising money for the civil government, *i.e.*, U. S. Naval Government of Guam. Therefore, the above registering was carried out quite conscientiously throughout the years. No one dreamed that shortly they would have to reckon with the Imperial Japanese Government's "Greater East Asia co-prosperity sphere."

When the Japanese armed forces invaded Guam, all organizations put up a grand fight until the Governor ordered all to surrender. Members of the Insular Guard were killed under the American flag in the Plaza-de-Espania, Agana. They were protecting Captain McMillian, USN, Governor of Guam.

After all organized resistance ceased, members of the Kempai Tai went to Sumai, the Department of Records and Accounts. There they obtained the registration of all firearms and radios on Guam. The Kempai Tai, under one Taicho Kemura, began collecting all contraband material, including American flags. It seems since our country began, our flag has been connected with a gun, and the Japanese made doubly sure they collected all, using mainly the registration certificates.

Let it be known that the only arms left on the island were the ones that had failed to be registered and those given to the natives by the Marines when they surrendered.

With these pitifully few weapons and rounds of ammunition, the Chamarro did fight throughout the Japanese occupation with no thought of personal gain as some people here in the U. S. did.

Tweed, the legendary figure of Guam, was given ammo for his .45, when it was valued as gold by those few who had any. Attempts were made to construct guns of every conceivable material, but the ammo problem was always more pressing.

Under no circumstances should we be required to register our weapons, even like the above, for taxes. Our guns are our heritage.

NAME WITHHELD.

NATIONAL MATCH PISTOL BULLETINS

NATIONAL ALL-AROUND PISTOL CHAMPIONSHIP

Aggregate of Matches 4, 5, and 6. 165 entries.

PLACE WINNERS

1. Reeves, Harry, Detroit, Mich..... 2586
2. Hemming, Al, Detroit, Mich..... 2560
3. Jones, Emmett, Los Angeles, Calif.... 2532
4. Brown, Charles, Quantico, Va..... 2522
5. Herron, J., Schnectady, N. Y..... 2215

CLASS WINNERS

EX—Huffman, D., La Tuna, Texas..... 2446
SS—Pope, M., Redwood City, Calif..... 2410
MK 1st—Ennis, R., Beeville, Texas..... 2307
MK—Lum, J., Honolulu, T. H..... 2230

NRA TARGET PISTOL & REVOLVER CHAMPIONSHIP

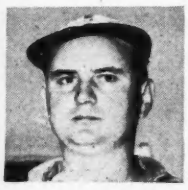
Aggregate of Matches 4 and 5. 184 entries.

PLACE WINNERS

1. Reeves, Harry, Detroit, Mich..... 1742
2. Jones, Emmett, Los Angeles, Calif.... 1725
3. Hemming, Alfred, Detroit, Mich..... 1721
4. Voelbel, Harold, Long Island, N. Y.... 1720
5. Spavor, Paul C., St. Louis, Mo..... 1709

CLASS WINNERS

EX—Huffman, Drexel, La Tuna, Texas.. 1666
SS—Moser, Robert, Quantico, Va..... 1646
MK 1st—Galle, Joseph, Fort Bragg, N. C. 1611



Voelbel

Woody

NATIONAL WOMAN'S PISTOL CHAMPIONSHIP

Aggregate of Matches 4 and 5. 12 entries.

1. Matthews, Alice, Broomall, Pa..... 1596
2. Palmer, F., Scotia, New York..... 1563
3. Knowles, A., New York, N. Y..... 1538
4. Maryhew, M., San Diego, Calif..... 1521
5. Baer, M., New York, N. Y..... 1482

.22 CALIBER PISTOL AGGREGATE

Aggregate of Matches 23, 24, 25, and 27. 219 entries.

PLACE WINNERS

1. Voebel, H., Long Island, N. Y..... 873
2. Reeves, Harry, Detroit, Mich..... 868
3. Benner, H., Rocky Mount, N. C..... 862
4. Hemming, Al, Detroit, Mich..... 859
5. Brooks, Q., Pauls Valley, Okla..... 856

CLASS WINNERS

EX—Larsen, R., Chicago, Ill..... 856
SS—Zuk, J., Danvers, Mass..... 830
MK 1st—Edwards, J., Dearborn, Mich... 825
MK—Lum, J., Honolulu, T. H..... 811
TYRO—Lee, H., Eau Claire, Wis..... 777

CENTER FIRE PISTOL AGGREGATE

Aggregate of Matches 34, 35, 36, and 38. 204 entries.

PLACE WINNERS

1. Reeves, Harry, Detroit, Mich..... 874
2. Jones, Emmett, Los Angeles, Calif..... 869
3. Hemming, Al, Detroit, Mich..... 862
4. Engbrecht, Jacob, Los Angeles, Calif... 860
5. Herron, J., Schenectady, New York... 857

CLASS WINNERS

EX—Huffman, D., La Tuna, Texas..... 835
SS—Moser, R., Quantico, Va..... 824
MK 1st—Byrd, C., Falls, Church, Va..... 788
MK—Gunsbury, A., Teaneck, N. J..... 793
TYRO—Ennis, R., Beeville, Texas..... 765

.45 CALIBER PISTOL AGGREGATE

Aggregate of Matches 45, 46, 47, and 49. 183 entries.

PLACE WINNERS

1. Reeves, Harry, Detroit, Mich..... 844
2. Hemming, Alfred, Detroit, Mich..... 839
3. Brown, Chas. A., Quantico, Va..... 827
4. LaLonde, Maurice, Detroit, Mich..... 827
5. Echols, Lee, Laredo, Texas..... 825

CLASS WINNERS

EX—Schaeter, Robert, Seattle, Wash.... 808
SS—Ackerman, Jack, Dearborn, Mich... 807
MK 1st—Lipscomb, Chas., Sparrows Point, Md..... 789
MK—Loos, B. E., Murphysboro, Ill..... 723
TYRO—Einhorn, Sam I., Chicago, Ill.... 608

CIVILIAN CAMP PERRY MATCH

Camp Perry Course. Any center-fire pistol or revolver. 132 entries.

1. Herron, J. R., Schenectady, N. Y... 293
2. Woody, J. N., Stanton, Texas..... 290
3. Logie, C. F., Grand Rapids, Mich..... 289
4. Markle, L. F., Denver, Colo..... 287
5. Sanderson, L. C., Milford, Mich..... 287

POLICE CAMP PERRY MATCH

Camp Perry Course. Any center-fire pistol or revolver. 98 entries.

1. Jones, E. E., Los Angeles, Calif..... 295
2. Reeves, H., Detroit, Mich..... 295
3. Hemming, A. W., Detroit, Mich..... 294
4. La Londe, M., Detroit, Mich..... 293
5. Golden, M., Reading, Pa..... 292

SERVICE CAMP PERRY MATCH

Camp Perry Course. Any center-fire pistol or revolver.

1. Benner, H. L., Fort Knox, Ky..... 295
2. Brooks, Quentin T., Oklahoma..... 295
3. Tumlin, James A., Fort Knox, Ky..... 291
4. Moser, Robert, Quantico, Va..... 288
5. Brown, Charles A., Quantico, Va..... 288

MASTER CLASS MATCH

Camp Perry Course. Any .22 Caliber pistol or revolver. 69 entries.

1. Reeves, Harry, Detroit, Mich..... 298
2. Woody, Jesse, Stanton, Texas..... 297
3. Spavor, Paul C., St. Louis, Mo..... 297
4. Brown, Chas. A. Quantico, Va..... 297
5. O'Dell, Eugene, Detroit, Mich..... 297

EXPERT CLASS MATCH

Camp Perry Course. Any .22 Caliber pistol or Revolver. 40 entries.

1. White, Eli, Atlanta, Ga..... 294
2. Studt, Norman, Dearborn, Mich..... 294
3. Larsen, R., Chicago, Ill..... 294
4. Matthews, Alice, Broomall, Pa..... 291
5. Hoffman, Drexel, LaTuna, Texas..... 291

SHARPSHOOTER CLASS MATCH

Camp Perry Course. Any .22 Caliber Pistol or Revolver. 69 entries.

1. Morrison, James V., Gypsum, Kan.... 288
2. Harding, Edwin, Atlanta, Ga..... 288
3. Moser, Robert, Quantico, Va..... 287
4. Zuk, Julian, Danvers, Mass..... 286
5. Choura, Lawrence, Cleveland, Ohio... 286

MARKSMAN 1ST CLASS MATCH

Camp Perry Course. .22 Caliber Pistol or Revolver. 51 entries.

1. Beachler, R., Jr., Santa Monica, Calif.. 287
2. Jones, G., Hammond, Ind..... 287
3. Edwards, J., Dearborn, Mich..... 285
4. Messick, G., Baltimore, Md..... 280
5. Byrd, C., Falls Church, Va..... 276

MARKSMAN CLASS MATCH

Camp Perry Course. Any .22 pistol or revolver. 34 entries.

1. Donroe, A., Laredo, Texas..... 284
2. Maryhew, M. B., San Diego, Calif.... 280
3. Gunsbury, A., Teaneck, N. J..... 279
4. Taylor, G. E., Davenport, Iowa..... 277
5. Lum, J., Honolulu, T. H..... 273

TYRO CLASS MATCH

Camp Perry Course. Any .22 pistol or revolver. 16 entries.

1. Lee, Hugh L.; Eau Claire, Wis..... 280
2. Ennis, R. V., Beeville, Texas..... 279
3. Perrin, Marlow D., Columbus, Ohio... 271
4. Schwabie, W. A., Traverse City, Mich. 258
5. Flanders, Mary F., Denver, Colo..... 232

Donroe

Herron

CIVILIAN NATIONAL MATCH

National Match Course. Any Center-fire Pistol or Revolver. 117 entries.

1. Woody, J., Stanton, Texas..... 283
2. O'Dell, E., Detroit, Mich..... 282
3. Logie, C., Grand Rapids, Mich..... 282
4. Sanderson, L., Milford, Mich..... 280
5. Drehle, A., River Edge, N. J..... 277

SERVICE NATIONAL MATCH

National Match Course. Any .22 cal. Pistol or Revolver. 44 entries.

1. Tumlin, James A., Ft. Knox, Ky..... 290
2. Benner, Huelet, Ft. Knox, Ky..... 287
3. Brooks, Lt. Quentin, Pauls Valley, Okla. 283
4. Brown, Chas. A., Quantico, Va..... 281
5. Lea, Ellis, Madison, Wisc..... 279

MC GINLEY TROPHY MATCH

National Match Course. Open to police only. Any center-fire pistol or revolver. 98 entries.

1. Ackerman, Jack K., Dearborn, Mich... 287
2. Reeves, Harry, Detroit, Mich..... 286
3. Jones, Emmett E., Los Angeles, Calif... 285
4. Starkey, Basil L., Los Angeles, Calif... 284
5. Mansell, Robert J., Arlington, Va.. 284

REGIONAL WINNERS TEAM MATCH

Open to teams in each NRA region in which a 1946 NRA Regional Pistol Tournament was held. Team to consist of the five Regional representatives from each Region who are attending the National Matches as guests of the NRA.

National Match Course. Any .22 caliber pistol or revolver. 8 team entries.

1. SOUTHEASTERN REGIONAL
   - Brooks, Q., Pauls Valley, Okla. 288
   - Funderburk, C., Tampa, Fla. 283
   - Hamds, D., Mt. Clemens, Mich. 270
   - Young, A., Atlanta, Ga. 270
   - Harger, E., Tampa, Fla. 255

   Total 1366
2. NORTHEASTERN REGIONAL 1366
3. FAR WESTERN REGIONAL 1364

CIVILIAN AFFILIATED CLUB TEAM MATCH

One or more teams of 4 shooters, one alternate, and team captain from any NRA affiliated club. All team members must be civilians. Any center fire pistol or revolver. Camp Perry Course.

1. Detroit Pistol Club Team No. 1 (Taylor, M., Captain)
   - Van Koughnett, N., Detroit, Mich. 289
   - Moore, A., Detroit, Mich. 285
   - Logie, C., Grand Rapids, Mich. 292
   - O'Dell, E., Detroit, Mich. 290

   Total 1156
2. Detroit Pistol Club Team No. 2 1124
3. Dutchess County Pistol Assn. 1050

COLT TROPHY MATCH

Open to police teams of 4 shooters, one alternate and team captain. Camp Perry Course. Any center-fire pistol or revolver. 16 team entries.

1. Los Angeles Police Team
   - Engbrecht, Jacob T., Los Angeles, Calif. 295
   - Starkey, Basil L., Los Angeles, Calif. 292
   - Stark, Walter R., Los Angeles, Calif. 290
   - Jones, Emmett, Los Angeles, Calif. .. 298

   Total 1175
2. Detroit Police Team 1169
3. St. Louis Police Team 1150

SERVICE TEAM MATCH

Service teams of 4 shooters, one alternate, and team captain. Camp Perry Course. Any center-fire pistol or revolver.

PLACE WINNERS

1. Fort Knox Pistol Team
   - T/Sgt. Huelett Benner, Ft. Knox, Ky. 294
   - T/Sgt. James A. Tumlin, Ft. Knox, Ky. 286
   - 1/Sgt. Alex Kellerman, Ft. Knox, Ky. 282
   - Maj. Paul B. Gritta, Ft. Knox, Ky. .. 267

   Team Total 1192
2. Seventh Army 1108
3. Ft. Sheridan, Ill. 969

OPEN .22 CALIBER SLOW FIRE MATCH

Any .22 cal. pistol or revolver. 20 shots slow fire at 50 yards. 285 entries.

PLACE WINNERS

1. Voebel, H., Hollis, L. I., N. Y. 192
2. Brooks, Q., Pauls Valley, Okla. 192
3. Reeves, H., Detroit, Mich. 192
4. Larsen, R., Chicago, Ill. 188
5. Jones, E., Los Angeles, Calif. 188

CLASS WINNERS

EX—Murray, A., Washington, D. C. 186
SS—Zuk, J., Danver, Mass. 181
MK 1st—Jones, G., Hammond, Ind. 181
MK—Newcomer, W., Waynesboro, Penna. 174
TYRO—Phillips, R., Port Clinton, Ohio 162

OPEN .22 CALIBER TIMED FIRE MATCH

Any .22 cal. pistol or revolver. 20 shots timed fire at 25 yards. 281 entries.

PLACE WINNERS

1. Benner, Huelet L., Fort Knox, Ky. 200
2. LaLonde, Maurice, Detroit, Mich. 199
3. Spavor, Paul C., St. Louis, Mo. 199
4. Stark, Walter R., Los Angeles, Calif. 199
5. Reeves, Harry, Detroit, Mich. 199

CLASS WINNERS

EX—Hollis, Roy J., Los Angeles, Calif. . 198
SS—Moser, Robert D., Quantico, Va. 197
MK 1st—Tusten, Harmon W., Port Clinton, Ohio 195
MK—Edwards, John S., Dearborn, Mich. 194
TYRO—Phillips, Robert L., Port Clinton, Ohio 167

Benner

Gibbons

OPEN .22 CALIBER RAPID-FIRE MATCH

Any .22 Caliber Pistol or Revolver. 20 Shots Rapid Fire at 25 Yards. 285 entries.

1. Ackerman, Jack K., Dearborn, Mich. . 197
2. Voelbel, Harold, Long Island, N. Y. . 197
3. McCartney, Wm. R., Chicago, Ill. 197
4. Brooks, Quentin T., Pauls Valley, Okla. 196
5. Hemming, Alfred W., Detroit, Mich. . 196

CLASS WINNER

EX—Schuman, Lewis, Chicago, Ill. 195
SS—Iverson, S. U., Chicago, Ill. 191
MK 1st—Byrd, Clyde A., Falls Church, Va. 189
MK—Lum, Joaquin, Honolulu, T. H. 187
TYRO—Johnson, Betty C., Denver, Colo. 167

OPEN TEAM MATCH

Open to any team of four shooters, one alternate, a Team Captain, and Coach from any regularly recognized Police Department, any NRA affiliated Civilian Rifle or Pistol Club, and any regular Service Team. NRA Short Course. Any .22 cal. pistol or revolver. 22 team entries.

PLACE WINNERS

1. Detroit Police Team No. 1
   - Reeves, H., Detroit, Mich. 286
   - Hemming, A., Detroit, Mich. 285
   - Porter, J., Detroit, Mich. 278
   - LaLonde, M., Detroit, Mich. 284

   Total 1133
2. Detroit Pistol Club 1105

EX—Windy City Rifle and Pistol Club . . 1082
SS—Ft. McPherson Rifle and Pistol Club 1060

WALKER TROPHY MATCH

National Match Course. Any .22 caliber pistol or revolver. 241 entries.

PLACE WINNERS

1. Voelbel, H., Long Island, N. Y. 287
2. Starkey, B., Los Angeles, Calif. 282
3. LaLonde, M., Detroit, Mich. 281
4. Reeves, H., Detroit, Mich. 281
5. Benner, H., Ft. Knox, Ky. 280

CLASS WINNERS

EX—Larsen, R., Chicago, Ill. 278
SS—Pope, M., Redwood City, Calif. 271
MK 1st—Beachler, R., Santa Monica, Calif. 273
MK—Lum, J., Honolulu, T. H. 279
TYRO—Phillips, R., Port Clinton, Ohio . . 251

MASTER CLASS MATCH

National Match Course. Any .22 cal. pistol or revolver. 68 entries.

1. O'Dell, E., Detroit, Mich. 290
2. Brown, C., Detroit, Mich. 286
3. Kaniecki, S., Detroit, Mich. 284
4. Reeves, H., Detroit, Mich. 284
5. Voelbel, H., Long Island, N. Y. 283

EXPERT CLASS MATCH

National Match Course. Any .22 caliber pistol or revolver. 43 entries.

1. Moore, A., Detroit, Mich. 279
2. Matthews, A., Broomall, Penna. 278
3. Flanders, H., Denver, Colo. 276
4. Holslay, F., Collansville, Ill. 274
5. Thomas, J., Jacksonville, Fla. 273

SHARPSHOOTER CLASS MATCH

National Match Course. Any .22 cal. pistol or revolver. 64 entries.

1. Carper, A., Toledo, Ohio 275
2. Maryhew, L., San Diego, Calif. 274
3. Freitag, J., Chicago, Ill. 272
4. Blackwell, O., La Tuna, Texas 272
5. Young, A., Atlanta, Ga. 271

MARKSMAN 1ST CLASS MATCH

National Match Course. Any .22 Cal. Pistol or Revolver. 46 entries.

1. Beachler, Robert R., Santa Monica, Calif. 271
2. Pike, Bill J., Haddonfield, N. J. 266
3. Jones, Griffith E., Hammond, Ind. 264
4. Edwards, John S., Dearborn, Mich. 262
5. Misiek, William, Washington, D. C. 262

MARKSMAN CLASS MATCH

National Match Course. Any .22 cal. pistol or revolver. 37 entries.

1. Gibbons, John E., Boston, Mass. 265
2. Lum, Joaquin, Honolulu, T. H. 261
3. Taylor, Gene E., Davenport, Iowa 258
4. Morgan, Lloyd J., South Bend, Ind. .. 256
5. Yarbrough, James S., Fort Knox, Ky. . 255

TYRO CLASS MATCH

National Match Course. Any .22 caliber pistol or revolver. 5 entries.

1. Jackson, H., San Francisco, Calif. 180
2. Flanders, M., Denver, Colo. 176

OPEN CENTER-FIRE SLOW-FIRE MATCH

Any center-fire pistol or revolver. 20 shots slow fire at 50 yards. 257 entries.

PLACE WINNERS

1. Reeves, H., Detroit. Mich. 189
2. Lemaster, G., Detroit, Mich. 188
3. Voelbel, H., Long Island, N. Y. 188
4. Tumlin, J., Fort Knox, Ky. 187
5. Herron, J., Schenectady, N. Y. 187

CLASS WINNERS

EX—Murray, A., Washington, D. C.... 184
SS—Horian, J., Detroit, Mich..... 183
MK 1st—Straith, M., Detroit, Mich..... 178
MK—Schaeter, R., Seattle, Wash..... 179

OPEN CENTER-FIRE TIMED FIRE MATCH

Any center-fire pistol or revolver. 20 shots, timed fire at 25 yards. 256 entries.

PLACE WINNERS

1. Reeves, Harry, Detroit, Mich..... 199
2. Jones, Emmett, Los Angeles, Calif..... 198
3. O'Dell, E., Detroit, Mich..... 198
4. Harkleroad, D., San Francisco, Calif... 198
5. Lea, E., Madison, Wis..... 197

CLASS WINNERS

EX—Thomas, J., Jacksonville, Fla..... 195
SS—Carper, A., Toledo, Ohio..... 194
MK 1st—Zimmer, U., Grand Forks, N. D. 191
MK—Lum, J., Honolulu, T. H..... 188
TYRO—Jackson, H., San Francisco, Calif. 157

OPEN CENTER-FIRE RAPID FIRE MATCH

Any center-fire pistol or revolver. 20 shots, rapid fire at 25 yards. 254 entries.

PLACE WINNERS

1. Jones, Emmett, Los Angeles, Calif.... 200
2. Anton, Christ, St. Louis, Mo..... 195
3. Herron, J., Schenectady, N. Y..... 195
4. Woody, Jesse, Stanton, Texas..... 194
5. Reeves, Harry, Detroit, Mich..... 193

CLASS WINNERS

EX—Huffman, Drexel, LaTuna, Texas.... 188
SS—Pope, Mark, Redwood City, Calif.... 189
MK 1st—Crumlish, Paul, Lakewood, Ohio 178
MK—Gunsbury, Alan, Teaneck, N. J.... 183
TYRO—Jackson, Helen, San Francisco, Calif. 50

OPEN TEAM MATCH

Open to any team of four shooters, one alternate, a team captain, and coach from any regularly recognized Police Dept., any NRA affiliated Civilian Rifle or Pistol Club, and any regular service team. NRA short course. Any center fire pistol or revolver. 23 team entries.

PLACE WINNERS

	Stages	*Total*
1. Detroit Police #1		
Reeves, Harry, Detroit	89- 99-98	286
Hemming, A., Detroit	93- 97-97	287
LaLonde, M., Detroit	92- 99-91	282
Porter, J., Detroit	94- 95-93	282
Team Total		1137
2. Los Angeles Police #1		1123

CLASS WINNERS

EX—Windy City R. & P. Club..... 1081
SS—Communication Division 1088
MK 1st—Ft. Sheridan, Illinois..... 967

CLARKE TROPHY PISTOL MATCH

National Match Course. Any center-fire pistol or revolver. 253 entries.

PLACE WINNERS

1. Starkey, Basil, Los Angeles, Calif..... 293
2. Reeves, Harry, Detroit, Mich..... 293
3. Hemming, Alfred, Detroit, Mich..... 289
4. Jones, Emmett E., Los Angeles, Calif... 288
5. O'Dell, Eugene T., Detroit, Mich..... 288

CLASS WINNERS

EX—Studt, Norman C., Dearborn, Mich. 278
SS—Kelchauser, A., Chicago, Ill..... 271
MK 1st—Lipscomb, Charles, Sparrows Point, Md. 273
MK—Schaeter, Robert, Seattle, Wash.... 275
TYRO—Rodgers, Edgar, Washington, D. C. 228

EXPERT CLASS MATCH

National Match Course. Any center fire pistol or revolver. 253 entries.

1. Moore, A., Detroit, Mich..... 279
2. Sanderson, L., Milford, Mich..... 279
3. Huffman, D., La Tuna, Texas..... 269
4. Murray, A., Washington, D. C..... 269
5. Nichols, O., Boston, Mass..... 268

MASTER CLASS PISTOL MATCH

National Match Course. Any center fire pistol or revolver. 67 entries.

1. Benner, Huelet, Fort Knox, Ky..... 283
2. Voelbel, Harold, Long Island, N. Y.... 283
3. Brown, Chas., Quantico, Va..... 283
4. Fegan, Arthur, New York, N. Y..... 283
5. LaLonde, Maurice, Detroit, Mich..... 281

Sanderson

Starkey

SHARPSHOOTER CLASS PISTOL MATCH

National Match Course, Any center-fire pistol or revolver. 80 entries.

1. Kelchauser, A., Chicago, Ill..... 271
2. Pope, M. A., Redwood City, Calif.... 271
3. Ramsey, J., Rocky Mount, N. C..... 270
4. Harding, E., Atlanta, Ga..... 270
5. Schmieg, A., Columbus, Ohio..... 266

MARKSMAN 1ST CLASS PISTOL MATCH

National Match Course. Any center-fire pistol or revolver. 33 entries.

1. Straith, M., Detroit, Mich..... 268
2. Byrd, C., East Falls Church, Va..... 261
3. Beachler, R., Santa Monica, Calif..... 260
4. Misiek, W., Washington, D. C..... 258
5. Bodley, C., Poughkeepsie, N. Y..... 257

MARKSMAN CLASS PISTOL MATCH

National Match Course. Any center-fire pistol or revolver. 26 entries.

1. Svec, Frank, Leonia, N. J..... 267
2. Lum, J., Honolulu, T. H..... 260
3. Norris, J., Knoxville, Tenn..... 258
4. Gunsbury, A., Teaneck, N. J..... 250
5. Walton, J., Beeville, Texas..... 244

TYRO CLASS MATCH

National Match Course. Any center fire pistol or revolver. 3 entries.

1. Ennis R. V., Reesville, Texas..... 231
2. Jackson, Helen M., San Francisco, Calif. 81

OPEN .45 CALIBER SLOW FIRE MATCH

.45 Cal. Semi-Automatic Pistol. 20 shots, slow fire at 50 yards. 223 entries.

PLACE WINNERS

1. Echols, Lee., Laredo, Texas..... 182
2. LaLonde, Maurice, Detroit, Mich..... 182
3. Reeves, Harry, Detroit, Mich..... 182
4. Benner, Hueler, Fort Knox, Ky..... 181
5. MacIntyre, John, Detroit, Mich..... 177

CLASS WINNERS

EX—Hunter, Herman, Bronx, N. Y..... 175
SS—Benton, Louis A., Newton, Penn..... 173
MK 1st—Strahan, Henry, Waynesboro, Penn. 173
MK—Rainwater, Ward, Lansing, Mich... 152
TYRO—Knowles, Adelaide, New York, N. Y. 150

OPEN .45 CALIBER TIMED FIRE MATCH

20 shots, timed fire at 25 yards. .45 Caliber Semi-Automatic Pistol. 223 entries.

PLACE WINNERS

1. Hemming, Alfred, Detroit, Mich..... 195
2. Reeves, Harry, Detroit, Mich..... 195
3. Porter, H., Detroit, Mich..... 194
4. Golden, M., Reading, Penn..... 194
5. Woody, Jesse, Stanton, Texas..... 194

CLASS WINNERS

EX—Moser, R., Quantico, Va..... 191
SS—Lea, E., Madison, Wis..... 194
MK 1st—Morrison, J., Gypsum, Kan.... 189
MK—Loos, B., Murphysboro, Ill..... 182
TYRO—Rainwater, W., Lansing, Mich.. 176

OPEN .45 CALIBER RAPID FIRE MATCH

20 shots, rapid fire at 25 yards. .45 Caliber Semi-Automatic Pistol. 221 entries.

PLACE WINNERS

1. O'Dell, E., Detroit, Mich..... 194
2. Brown, Charles, Quantico, Va..... 193
3. Reeves, Harry, Detroit, Mich..... 191
4. McFern, J., Detroit, Mich..... 191
5. Tumlin, J., Fort Knox, Ky..... 189

CLASS WINNERS

EX—Hammers, C., Los Angeles, Calif... 186
SS—Ackerman, J., Dearborn, Mich..... 183
MK 1st—Lipscomb, C., Sparrows Point, Md. 186
MK—Harding, Edwin, Atlanta, Ga..... 170
TYRO—Stringer, Robert, Jacksonville, Fla.. 162

OPEN TEAM MATCH

20 shots, rapid fire, at 25 yards. .45 Caliber Semi-Automatic Pistol. 16 entries.

PLACE WINNERS

1. Detroit Police #1	
Reeves, Harry, Detroit, Mich.	287
Hemming, Al, Detroit, Mich.	276
Porter, J., Detroit, Mich.	257
LaLonde, Maurice, Detroit, Mich.	269
Team Total	1089
2. Los Angeles Police #1	1083

CLASS WINNERS

EX—Los Angeles Police #2..... 1060
SS—Metropolitan Police DC..... 995
MK 1st—Toledo Revolver Club..... 993
MK—Fort McPherson, Ga..... 967

ORTON MEMORIAL TROPHY MATCH

National Match Course. .45 Caliber Semi-Automatic Pistol. 211 entries.

PLACE WINNERS

1. Hemming, Alfred, Detroit, Mich..... 281
2. Reeves, Harry, Detroit, Mich..... 276
3. Woody, Jesse, Stanton, Texas..... 276
4. Moser, Robert, Quantico, Va..... 275
5. Thomas, James, Jacksonville, Fla..... 274

CLASS WINNERS

EX—Moore, A. N., Tampa, Fla..... 271
SS—Ackerman, Jack, Dearborn, Mich... 269
MK 1st—Lipscomb, Chas., Sparrows Point, Md. 266
MK—Loos, B. E., Murphysboro, Ill..... 241
TYRO—Rainwater, Ward, Lansing, Mich. 245

MASTER CLASS MATCH

National Match Course. .45 Caliber semi-automatic pistol. 30 entries.

1. Reeves, H., Detroit, Mich. 279
2. Woody, J., Stanton, Texas 279
3. Engbrecht, J., Los Angeles, Calif. 279
4. Benner, H., Ft. Knox, Ky. 278
5. Logie, C., Grand Rapids, Mich. 275

EXPERT CLASS MATCH

National Match Course. .45 Caliber semi-automatic pistol. 28 entries.

1. Tumlin, J., Ft. Knox, Ky. 280
2. McIntyre, R., Quantico, Va. 278
3. Huffman, D., LaTuna, Texas 275
4. Schafer, R., Seattle, Wash. 271
5. Bates, D., Kansas City, Mo. 271

SHARPSHOOTER CLASS MATCH

National Match Course. .45 Caliber semi-automatic pistol. 28 entries.

1. Hubert, W., Toledo, Ohio 269
2. Sanderson, L., Milford, Mich. 265
3. Ackerman, J., Dearborn, Mich. 265
4. Studt, N., Dearborn, Mich. 264
5. Walmsley, H., Seattle, Wash. 263

MARKSMAN 1ST CLASS MATCH

National Match Course. .45 Caliber semi-automatic pistol. 53 entries.

1. Lipscomb, C., Sparrows Point, Md. 268
2. Seguin, F., Superior, Wis. 268
3. Murray, A., Washington, D. C. 259
4. Rhymer, D., South Bend, Ind. 257
5. Maxwell, P., Flemington, N. J. 254

MARKSMAN CLASS MATCH

National Match Course. .45 Caliber semi-automatic pistol. 31 entries.

1. Loos, B. E., Murphysboro, Ill. 241
2. Gritta, Paul B., Fort Knox, Ky. 238
3. Gunsbury, Alan C., Teaneck, N. J. 234
4. Young, Arthur R., Atlanta, Ga. 234
5. Anderson, Myron E., Colorado 234

TYRO CLASS MATCH

National Match Course. .45 Caliber semi-automatic pistol. 29 entries.

1. Rainwater, W., Lansing, Mich. 251
2. Hansen, H., Washington, D. C. 236
3. Epstein, A., Newburgh, N. Y. 228
4. Hoksen, W., Chicago, Ill. 216
5. Einhorn, S., Chicago, Ill. 202

Engbrecht

CIVILIAN AFFILIATED CLUB TEAM MATCH

Camp Perry Course. Any .22 Caliber Pistol or Revolver. 5 entries.

1. Detroit Pistol Club
   - Logie, C., Detroit, Mich. 297
   - Studt, N., Detroit, Mich. 290
   - Moore, A., Detroit, Mich. 293
   - O'Dell, M., Detroit, Mich. 298

   1178
2. Toledo Revolver Club 1114
3. Teaneck Rifle and Pistol Club 1112

POLICE TEAM MATCH

Camp Perry Course. Any .22 Caliber Pistol or Revolver. 13 entries.

1. New York City Police Dept.
   - Voelbel, H., New York, N. Y. 292
   - Weldon, J., New York, N. Y. 291
   - Walsh, M., New York, N. Y. 296
   - Fegan, A., New York, N .Y. 292

   1171
2. Detroit Police #1 1161
3. Kansas City (Mo.) Police 1158

SERVICE TEAM MATCH

Camp Perry Course. Any .22 Caliber Pistol or Revolver. 3 entries.

1. Fort Knox Pistol Team
   - Gritta, Paul, Fort Knox, Ky. 283
   - Benner, Huelet, Fort Knox, Ky. 295
   - Tumlin, James, Fort Knox, Ky. 294
   - Kellerman, Alex., Fort Knox, Ky. 288

   1160
2. Fort Sheridan Pistol Team 1080
3. Seventh Army Team 1038

LIFE MEMBERS' MATCH

National Match Course. Any Center Fire Pistol or Revolver. 64 entries.

1. Reeves, Harry, Detroit, Mich. 291
2. Hemming, Al, Detroit, Mich. 287
3. Jones, Emmett, Los Angeles, Calif. 286
4. O'Dell, E., Detroit, Mich. 285
5. Slavens, P., Los Angeles, Calif. 284

NATIONAL TROPHY INDIVIDUAL PISTOL MATCH

National Match Course. .45 caliber pistol. 260 entries.

1. Engbrecht, Jacob, Los Angeles, Calif. 280
2. Roettinger, Phil, Camp Lejuene, N. C. 274
3. Drehle, Alvin, Detroit, Mich. 273
4. Logie, Charles, Grand Rapids, Mich. 271
5. McIntyre, R. C., Quantico, Va. 271

NATIONAL MATCH RIFLE BULLETINS

CRITCHFIELD TROPHY NATIONAL SMALL BORE CHAMPIONSHIP

An aggregate of matches 76, 77, 78, 81, 82, 83, 87, and 89. 388 entries.

PLACE WINNERS

1. Moore, Garrett, Washington, Pa. 3184
2. Schweitzer, Wm., Hillside, N. J. 3178
3. Saunders, Earl, Louisville, Ky. 3177
4. Kuhn, Fred, Stratford, Conn. 3176
5. Moore, Robert, Claysville, Pa. 3176

CLASS WINNERS

EX—Kelley, John, Ft. Worth, Texas 3168
SS—Thorington, C., Long Beach, Calif. 3162
MK 1st—Oster, Roy, Llanerch, Pa. 3150
MK—Jackson, D., San Francisco, Calif. 3130
TYRO—Fry, Burton, Ft. Wayne, Ind. 3047

NATIONAL WOMAN'S CHAMPIONSHIP

An aggregate of matches 76, 77, 78, 81, 82 83, 87, and 89. 21 entries.

1. McCord, A., Sewickley, Pa. 3166
2. Woodring, K., New Haven, Conn. 3160
3. Davis, R., Los Angeles, Calif. 3156
4. Bockmann, A., Ridgefield, N. J. 3154
5. Richard, A., St. Augustine, Fla. 3151

NATIONAL JUNIOR CHAMPIONSHIP

Open to Junior Competitors only who are members of the NRA. The aggregate of matches 77, 78, 82, and 87 constitute the score in this event. 20 entries.

1. Cook, Arthur, Washington, D. C. 1582
2. Kelley, John L., Fort Worth, Texas 1580
3. Maxwell, James W., Rehobeth Beach, Del. 1571
4. Oster, Roy E., Llanerch, Pa. 1569
5. Bockmann Audrey A., Ridgefield, N. J. 1569

ANY SIGHT AGGREGATE

The aggregate of matches 76, 81, 83, and 89 constitute the score of this match. 290 entries.

PLACE WINNERS

1. Schweitzer, W., Hillside, N. J. 1596
2. Lacy, Jack, New Haven, Conn. 1596
3. Balestrieri, T., Brooklyn, N. Y. 1595
4. Saunders, E., Louisville, Ky. 1595
5. Moore, R., Claysville, Pa. 1595

CLASS WINNERS

EX—Sharpnack, A., Pueblo, Colo. 1594
SS—Thorington, C., Long Beach, Calif. .. 1592
MK 1st—Tauscher, A., Portland, Ore. .. 1586
MK—Jackson, D., San Francisco, Calif. 1576
TYRO—Fry, Burton, Ft. Wayne, Ind. 1546

METALLIC SIGHT AGGREGATE

The aggregate of matches 77, 78, 82, 87 constitute the score in this event. 282 entries.

PLACE WINNERS

1. Moore, G., Washington, Pa. 1590
2. Triggs, R., Madison, N. J. 1588
3. Kuhn, F., Stratford, Connecticut 1585

Cook

McCord

4. Beecher, E., Cleveland, Ohio 1585
5. Snowhill, K., Quincy, Ill. 1583

CLASS WINNERS

EX—Kelley, J., Fort Worth, Texas 1580
SS—Nowlin, W., Chatta, Tenn. 1574
MK 1st—Oster, R., Llanerch, Pa. 1569
MK—Jackson, D., San Francisco, Calif. 1554
TYRO—Fry, B., Wayne, Ind. 1510

50 YARD ALL COMERS (ANY SIGHTS) MATCH

40 shots at 50 yards, prone. 556 entries.

PLACE WINNERS

1. Hamby, C., Atlanta, Ga. 400
2. Perzo, J., Gary, Ind. 400
3. Tomsen, W., Flushing, N. Y. 400
4. Schweitzer, W., Hillside, N. J. 400
5. Blensinger, A., Rochester, N. Y. 400

CLASS WINNERS

EX—Kleis, R., Holland, Mich..... 400
SS—Anderson, G., Cambridge, Ohio..... 400
MK 1st—Tauscher, A., Portland, Oregon 399
MK—Napier, S., Greensburg, Pa..... 398
TYRO—Norris, E., Bend, Ind..... 393

50 YARD ALL COMERS, METALLIC SIGHTS

40 shots, at 50 yards, prone. Metallic sights. 548 entries.

PLACE WINNERS

1. Brehm, E., Dearborn, Mich..... 400
2. Parker, F., Rock Island, Ill..... 400
3. Snowhill, K., Quincy, Mass..... 400
4. Schweitzer, W., Hillside, N. J..... 400
5. Kuhn, F. O., Stratford, Conn..... 400

CLASS WINNERS

EX—Klem, W., Newark, N. J..... 400
SS—Dulaney, W., Birmingham, Ala..... 399
MK 1st—Burkhalter, S., Salem, Ohio.... 398
MK—Warren, A., Denver, Colo..... 395
TYRO—Kerner, L., Hazel Park, Mich.... 387

Brehm

Kuhn

100 YARDS ALL COMERS, METALLIC SIGHTS

40 shots at 100 yards, prone. Metallic sights. 408 entries.

PLACE WINNERS

1. Kuhn, F. O., Stratford, Conn..... 397
2. Snowhill, Kyle W., Quincy, Ill..... 396
3. Moore, Garrett W., Washington, Pa... 396
4. Bond, Sam, New Phila., Ohio..... 396
5. Kelley, John L., Ft. Worth, Texas.... 396

CLASS WINNERS

EX—Westergaard, August, Whiting, Iowa 396
SS—Rohland, C. G., Harrisburg, Pa..... 396
MK 1st—Burkhalter, S. C., Salem, Ohio.. 395
MK—Jackson, D., San Francisco, Calif... 389
TYRO—Kerner, Linda L., Hazel Pk., Mich. 380

LIFE MEMBERS MATCH

Open to NRA Life Members only. Dewar Course. Any Sights. 172 Entries.

1. Schweitzer, W. P., Hillside, N. J..... 400
2. Kennedy, S., Beaver Fall, Pa..... 400
3. Perzo, J., Gary, Ind..... 400
4. Gustafson, G., Aberdeen, Md..... 400
5. Spahr, R., Highland Park, Ill..... 399

"400" CLUB MEMBERS MATCH

Dewar Course, Metallic Sights. 39 Entries.

1. Hamby, Charlie G., Atlanta, Ga..... 400
2. Triggs, Ransford, Madison, N. J..... 400
3. Frank, Carl, Rochester, Minn..... 399
4. Perzo, John, Gary, Ind..... 399
5. Pade, Ernest, Sellersville, Pa..... 399

100 YARD ALL COMERS, ANY SIGHTS MATCH

40 shots at 100 yards, prone. Any Sights. 359 Entries.

PLACE WINNERS

1. Burkhalter, S., Salem, Ohio..... 400
2. Davis, R., Los Angeles, Cal..... 400
3. Schweitzer, W., Hillside, N. J..... 400
4. Richard, A., St. Augustine, Fla..... 400
5. Bjornstad, G., Chicago, Ill..... 400

CLASS WINNERS

EX—Morganfield, A., Santa Barbara, Calif. 399
SS—Berlin, R., Gilbertsville, N. Y..... 399
MK 1st—French, H., Denver, Colo..... 397
MK—Warren, A., Denver, Colo..... 397
TYRO—Fry, B., Ft. Wayne, Ind..... 387

U. S. CARTRIDGE TROPHY MATCH

Dewar Course, Metallic Sights. 393 Entries.

PLACE WINNERS

1. Moore, G., Washington, Pa..... 399
2. Schweitzer, W., Hillside, N. J..... 399
3. Spurlin, G., Seattle, Wash..... 399
4. Snowhill, K., Quincy, Ill..... 399
5. Krebs, O., Lorain, Ohio..... 399

CLASS WINNERS

EX—Prins, D., Holland, Mich..... 398
SS—Tobias, W., Elmira, N. Y..... 398
MK 1st—Oster, R., Llanerch, Pa..... 395
MK—Jackson, D., San Francisco, Calif... 391
TYRO—Jordan, G., Lucky, Ohio..... 393

WESTERN TROPHY MATCH

Dewar Course, Metallic Sights. 385 Entries.

PLACE WINNERS

1. Wilkens, L. A., Seville, Ohio..... 399
2. Lacy, Jack, New Haven, Conn..... 399
3. Saunders, Earl, Louisville, Ky..... 399
4. Sharpnack, Albert J., Pueblo, Colo.... 399
5. Brehm, Ervin E., Dearborn, Mich..... 399

CLASS WINNERS

EX—Waggoner, Robert, Pontiac, Mich.. 399
SS—Thorington, Charles B., Long Beach, Calif. 398
MK 1st—Rosinski, Alexander, Highland Park, Mich. 397
MK—Jackson, D. Q., San Francisco, Calif. 398
TYRO—Fry, Burton W., Fort Wayne, Ind. 389

DOUBLES TEAM MATCH

20 shots per man, 100 yards, prone. Metallic Sights. 106 team Entries.

PLACE WINNERS

1. Schweitzer, W., Hillside, N. J..... 199-17
   Triggs, R., Madison, N. J..... 199-9
   398-26
2. Oster, Roy E., Llanerch, Pa..... 199-9
   Cook, Arthur E., Washington, D. C.. 199-12
   398-23
3. Lacy, Jack, New Haven, Conn..... 199-11
   Tekulsky, Irwin, New York, N. Y... 199-6
   398-17

AMERICAN DEWAR TROPHY MATCH

Dewar course, Metallic Sights. 280 Entries.

PLACE WINNERS

1. Ransford Triggs, Madison, N. J..... 400
2. John Perzo, Gary, Ind..... 400
3. Arthur Cook, Washington, D. C..... 400

Hamby

Oster

4. Charlie Hamby, Atlanta, Ga..... 400
5. Carl Frank, Rochester, Minn..... 400

CLASS WINNERS

EX—Russell Kleis, Holland, Mich..... 400
SS—Charles Thorington, Long Beach, Calif. 399
MK 1st—Wm. Johnson, Cartersville, Ga.. 396
MK—Leslie Stewart, Seattle, Wash..... 395
TYRO—Lynda Kerner, Hazel Park, Mich. 376

Spurlin

Tobias

DOUBLES TEAM MATCH

20 shots per man at 100 yards, prone. Metallic Sights. 111 team Entries.

PLACE WINNERS

1. Yearsley, A., Dayton, Ohio..... 200-13
   Spencer, F., Sharon, Conn..... 200-13
   400-26
2. Lacy, J., New Haven, Conn..... 200-13
   Tekulsky, I., New York, N. Y..... 199-16
   399-29
3. Schweitzer, W., Hillside, N. J..... 199-13
   Triggs, R., Madison, N. J..... 200-14
   399-27

AUSTIN TROPHY MATCH

40 shots at 50 meters, prone. Metallic Sights. 385 Entries.

PLACE WINNERS

1. Moore, R., Claysville, Pa..... 398
2. Triggs, R., Madison, N. J..... 397
3. Moore, G., Washington, Pa..... 396
4. Kennedy, S., Beaver Falls, Pa..... 395
5. Latta, R., Maplewood, N. J..... 395

CLASS WINNERS

EX—Schaad, W..... 393
SS—Herts, C., Chicago, Ill..... 395
MK 1st—Shelton, G., Austin, Tex..... 389
MK—Napier, S., Greensburg, Pa..... 387
TYRO—Fry, B., Ft. Wayne, Ind..... 377

DOUBLES TEAM MATCH

20 shots per man at 100 yards, prone. Metallic sights. 120 team Entries.

1. Kuhn, Fred, Stratford, Conn..... 200-13
   Kuhn, Roy, Stratford, Conn..... 200-18
   Total 400-31
2. Kolb, Otto, Pelham, N. Y..... 200-12
   Tekulsky, Sam, New York, N. Y... 200-17
   Total 400-29
3. Norwood, James, Austin, Texas.... 200-16
   Kelley, John, Ft. Worth, Texas.... 199-10
   Total 399-26

REMINGTON TROPHY MATCH

40 shots at 50 meters, prone. Any sights. 37 Entries.

PLACE WINNERS

1. Seagly, N., Topeka, Indiana..... 400
2. Saunders, E., Louisville, Ky..... 400

3. Frarey, C., Victor, N. Y. 400
4. Woodring, C., New Haven, Conn. 400
5. Lacy, J., New Haven, Conn. 399

CLASS WINNERS

EX—Morganfield, A., Santa Barbara, Calif. 399
SS—Thorington, C., Long Beach, Calif. 399
MK 1st—King, H., Birmingham, Ala. 396
MK—Jackson, D., San Francisco, Calif. 392
TYRO—Fry, B., Fort Wayne, Ind. 390

NRA FOUR-POSITION MATCH

5 shots each position at 50 meters; prone, kneeling, sitting, and standing. Metallic sights. 151 Entries.

1. Flowers, R., Cleveland, Ohio 188
2. Burnham, W., Seattle, Wash. 184
3. Schaad, W., Saginaw, Mich. 183
4. Seagly, W., Topeka, Ind. 182
5. Woodring, W., New Haven, Conn. 179

REGIONAL WINNERS TEAM MATCH

Open to teams from each NRA Region in which a 1946 Regional rifle tournament was held. Teams to consist of the five Regional representatives attending the National Matches as guests of the NRA.

Dewar course. Metallic Sights. 8 team Entries.

1. Far Western Region Team
   - Perkins, Robert, Fresno, Calif. 396
   - Morganfield, A. W., Santa Barbara, Calif. 395
   - Thorington, C. B., Long Beach, Calif. 393
   - Olsen, Fred, Santa Barbara, Calif. 397
   - Jackson, D. Q., Jr., San Francisco, Calif. 390
   - Team total 1971
2. Pacific Northwest Region Team 1967
3. North Central Region Team 1960

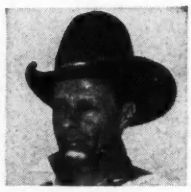
MASTER CLASS MATCH

40 shots at 50 yards, prone. Metallic Sights. 122 Entries.

PLACE WINNERS

1. Schweitzer, Wm., Hillside, N. J. 399
2. Spencer, Fred, Darien, Conn. 399
3. Saunders, Earl, Louisville, Ky. 399
4. Allen, Loren, Springfield, Ohio 399
5. Woodring, Catherine, New Haven, Conn. 398

Schweitzer



Morganfield

EXPERT CLASS MATCH

40 shots at 50 yards, prone. Metallic Sights. 104 Entries.

1. Sharpnack, Albert J., Pueblo, Colo. 399
2. Parker, Frederick, Rock Island, Ill. 398
3. Prins, Donald, Holland, Mich. 398
4. Kelley, John L., Fort Worth, Texas 397
5. Brehm, Ervin E., Dearborn, Mich. 397

SHARPSHOOTER CLASS MATCH

40 shots, at 50 yards, prone. Metallic sights. 91 Entries.

1. Hossman, E., Girard, Pa. 398
2. Zietlow, M., Aberdeen, S. D. 397
3. Kroman, P., Holland, Mich. 396
4. Anderson, G., Cambridge, Ohio 396
5. Snodgrass, E., Gary, Ind. 396

Flowers

Kelley

MARKSMAN FIRST CLASS MATCH

40 shots at 50 yards, prone. Metallic sights. 35 Entries.

1. Tauscher, A., Portland, Oregon 394
2. Hood, James, Hammond, Ind. 393
3. French, H., Denver, Colo. 393
4. Oster, R., Llanerch, Pa. 392
5. Cox, Virginia, Seattle, Wash. 391

MARKSMAN CLASS MATCH

40 shots at 50 yards, prone Metallic sights. 39 Entries.

1. Warren, A., Denver, Colo. 394
2. Jackson, D., San Francisco, Calif. 392
3. Brumback, D., Seattle, Wash. 392
4. Palmer, W. C., Westfield, N. J. 386
5. Walters, J., Lewisburg, Pa. 385

TYRO CLASS MATCH

40 shots at 50 yards, prone. Metallic sights. 5 Entries.

1. Fry, B., Fort Wayne, Ind. 384
2. Kerner, L., Hazel Park, Mich. 379

MASTER CLASS MATCH

40 shots at 100 yards, prone. Metallic sights. 113 Entries.

1. Allyn, H., Springfield, Mass. 400
2. Woodring, W., New Haven, Conn. 398
3. Grady, R., Columbus, Ohio 398
4. Ferber, A., Lakewood, N. J. 398
5. Pade, E., Sellersville, Pa. 398

EXPERT CLASS MATCH

40 shots at 100 yards, prone. Metallic sights. 96 Entries.

1. Putman, B., Aurora, Ill. 397
2. Kelley, J., Ft. Worth, Tex. 397
3. Boerner, T., Collingswood, N. J. 397
4. Brehm, E., Dearborn, Mich. 396
5. Parker, F., Rock Island, Ill. 396

NRA AFFILIATED CLUB TEAM MATCH

Dewar Course, metallic sights. 24 entries.

PLACE WINNERS

1. Quinnipiac Rifle Club
   - Lacy, John, New Haven, Conn. 395
   - Lacy, James E., New Haven, Conn. 395
   - Woodring, W. B., New Haven, Conn. 391
   - Woodring, Kay, New Haven, Conn. 393

   1574
2. Lorain Rifle and Pistol Club, Inc. 1573

CLASS WINNERS

EX—Pinwheel Jr. Rifle Club 1570
SS—Maplewood Rifle Club 1566

SHARPSHOOTER CLASS MATCH

40 shots, 100 yards, prone, metallic sights. 78 entries.

1. Hossman, E., Girard, Pa. 397
2. Zmijewski, H., Ecorse, Mich. 397
3. Pels, E., Cincinnati, Ohio 396
4. Kiebler, R., Hershey, Pa. 397
5. Richard, A., St. Augustine, Fla. 396

MARKSMAN FIRST CLASS MATCH

40 shots, 100 yards, prone, metallic sights. 34 entries.

1. King, Harvey, Birmingham, Ala. 396
2. Jooss, Albert C., Marysville, Ohio 395
3. Oster, Roy E., Llanerch, Pa. 395
4. Johnson, W. H., Cartersville, Ga. 393
5. Rosinski, Alexander B., Highland Park, Mich. 392

MARKSMAN CLASS MATCH

40 shots, 100 yards, prone, metallic sights. 18 entries.

1. Jackson, D., San Francisco, Calif. 389
2. Warren, A., Denver, Colo. 389
3. Paterson, S., Dearborn, Mich. 388
4. Bray, E., Bancroft, Neb. 385
5. Walters, J., Lewisburg, Pa. 385

TYRO CLASS MATCH

40 shots, 100 yards, prone, metallic sights. 8 entries.

1. Fry, B., Fort Wayne, Ind. 394
2. Kerner, L., Hazel Park, Mich. 392

NRA AFFILIATED CLUB TEAM MATCH

Dewar Course, metallic sights. 28 entries.

PLACE WINNERS

1. Gunners Club of Long Island
   - Tekulsky, I., Long Island, New York 398
   - Tekulsky, S., Long Island, New York 398
   - Borokhovich, F., Valley Stream, New York 397
   - Kiss, E., Long Island, New York 397

   1588
2. Quinnipiac Rifle Club 1588

CLASS WINNERS

EX—Frazier Simplex Rifle Club 1588
SS—Maplewood Rifle Club 1581

CASWELL TEAM MATCH

Dewar Course, metallic sights. 25 entries.

1. Pennsylvania No. 5
   - Pade, Ernest, Sellersville, Pa. 400
   - Kleist, Dwight, Jr., Souderton, Pa. 398
   - Rockman, Harry, New Ringgold, Pa. 398
   - German, Charles, Tripoli, Pa. 397
   - Hartzell, Harold, Nazareth, Pa. 393
   - Lambert, Russell, Nazareth, Pa. 397

   2383
2. New Jersey 2382
3. New York State 2382

Two .38 caliber Police Officer's Special, #668914 and #707489; two P-38's .9mm, #7527 and #1335K; one .30 caliber Luger #79178; one S. & W. .38 caliber Military and Police #818475. C. L. Dixon, Society for Savings Bank Building, Cleveland 14, Ohio.

One model 1917 Colt revolver, #264050, as issued, stolen at Camp Anza, Calif. S/Sgt. Ray F. Wilkes, 105 East La Rue St., Streator, Ill. $20 reward.

One .30 caliber Mauser military pistol #103640. Fred X. Johnson, Grand Ridge, Illinois, giving name of party from whom purchased, if possible. $25 reward.

Fox AE grade double-barrelled shotgun, #35035, initial D.W.K. on trigger guard. D. W. Krichbaum, 424½ 10th St., West Palm Beach, Fla.

One Colt Woodsman, #133059, 6½" barrel. A. R. Maves, 81 Hickory St., Waukegan, Ill.

One Fiala repeating rifle, #2104, 20" barrel. Stolen from Applegate's Sporting Mr. E. U. Sherman, 3649 Pennsylvania, Kansas City 2, Mo.

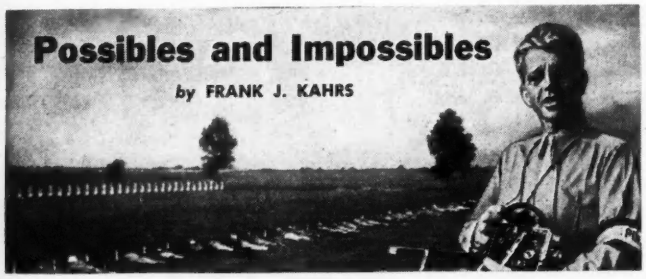
One Model 70 Winchester Hornet, #13796, with 440 Weaver scope, and name engraved on magazine case. One Model 19 Savage, #60787, with 330 Weaver scope. Both stolen from Mrs. Ward Grabill, 5804 44th Ave., Hyattsville, Md.

One .22 caliber Colt Officer's Model, #27105, with Roper Grips. One .32 cal. S. & W. revolver, #643962, with Sanderson Grips. Both stolen from Lewis Zrinsky, 427 Third Ave., Bethlehem, Pa.

A PAPER FOR PEOPLE WHO SHOOT

Rifle Remgt

VOL. 9, NO. 10 BRIDGEPORT, CONN., OCT., 0



When we closed the door of the Remington house on Commercial Row at the close of the Camp Perry National Matches this year, we wondered as usual whether we would see it again. Not that we did not expect to live another year, but whether or not the matches would be held there the following year.

According to my Chief G-2 man, in whom I have the greatest confidence, there will be another Camp Perry next year, and he even goes so far as to assure me that it will be the regular National Match Program—big bore, small bore, rifle and pistol; and that even if Camp Perry is made into a State Park, the range will still be there and for use as formerly, so I don't worry too much about the future of Camp Perry.

It's a big place. There are a lot of buildings for anything you want to do with them—a fine big movie house; a church; the arcade where you can get a shave or a haircut, have your picture taken, or see the DCM or the NRA boys about anything that occurs to you. Then, there's the mess hall when you're hungry and the canteen in the arcade when you are thirsty.

There will be no more tents at Camp Perry because there are enough shacks and buildings of all kinds to house everybody comfortably. This year the small bore range was placed directly in front of the flag pole and there were 300 targets, and down the line toward the Erie Proving Grounds they set up the pistol range and both of these were done in a smart businesslike manner.

Now something about this year's shoot. The small bore rifle attendance was a bit off. The pistol was good. Between the two there were about 1,000 shooters and 700 regular Army troops to man the ranges. Scores in general were good excepting on those days when the wind and the mirage played havoc, but out of it all emerged a new Junior Champion and it may be because he was shooting "Targetmaster." A new woman's record of a possible and 32X's was hung up with a Model 37 and "Targetmaster," and then a new National Small Bore Champion, who also used the Model 37 and "Targetmaster." But let me say that it was a grand shoot and it was good to meet all our old friends again after four years.

CAMP PERR
SEASON FR

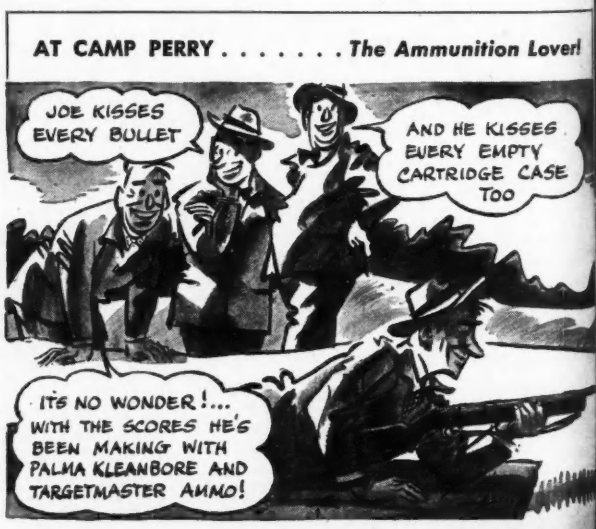
MODEL 37 AVAILABLE IN ONLY LIMITED QUANTITIES FOR SOME TIME

"MIRACLE TRIGGER" One feature of the Model 37, contributing to superior performance, is the Miracle Trigger. It is smooth, sharp, crisp—with lightning fast let-off. No back lash, drag or creep. Quickly adjustable to weight desired.

BRIDGEPORT, CONN., October, 1946. As announced recently the Remington Rangemaster Model 37 22 caliber match rifle now is available in limited quantities. The demand for the "37" is extremely heavy, and it has been possible to fill only a small portion of the orders.

While we are doing everything possible to speed production, the manufacture of parts for the Model 37 and assembly into finished target rifles cannot be rushed. There will be no "hurry-up" that might sacrifice the superior quality and workmanship that play such an important part in making the Model 37 the "world's finest 22 caliber target rifle."

If your order has been placed through your dealer, it may be some time before shipment is made, but don't forget it will pay you to wait for the Remington Model 37.


AT CAMP PERRY . . . . . The Ammunition Lover!
JOE KISSES EVERY BULLET
AND HE KISSES EVERY EMPTY CARTRIDGE CASE TOO
ITS NO WONDER!... WITH THE SCORES HE'S BEEN MAKING WITH PALMA KLEANBORE AND TARGETMASTER AMMO!

Remington News

WEATHER:
FAIR & COOLER . . . TIME FOR THE INDOOR SEASON

EPORT, CONNECTICUT, OCTOBER, 1946 — First Class Reading Matter for Rifle Shooters

RR CLIMAXES SUCCESSFUL FOR REMINGTON AMMUNITION

WHAT WILL YOU HUNT THIS YEAR...

Lots of target shooters turn into hunters when the season beckons. Here are some suggestions concerning the equipment you'll want to use.

. . . small game?

If you're going hunting with a 22 rifle or pistol, you'll find that Remington Hi-Speed 22 cartridges with hollow point bullets are the right medicine for dropping small game and pests. See what one does to an ordinary cake of laundry soap?

. . . big game?

Famous Remington center fire big game cartridges with soft point Core-Lokt bullets K.O. deer, bear and other big game when they hit! Expanding to twice the original caliber on impact, Core-Lokt bullets stay in one piece and rip through toughest hide, bone and muscle.

. . . upland game and waterfowl?

Remington Express and Remington Shur Shot shells provide power, quality and dependability for use on upland game and waterfowl. They have Kleanbore noncorrosive priming, double wetproofing, perfect shot pellets, progressive burning smokeless powder, and exclusive corrugated bodies that resist rough treatment.

"PALMA KLEANBORE" & "POLICE TARGETMASTER" SHOW TIGHTER GROUPS IN COMPETITION

Groups shot at 100 yards from machine rest

BRIDGEPORT, CONN., October, 1946. At this year's National Rifle Matches, held at Camp Perry, Ohio, August 31 to Sept. 8, Remington Targetmaster and Palma Kleanbore match ammunition wound up a season of sensational performance. Yes, target shooters from all over the country will tell you that Remington match ammunition is "hot."

When you get to the big matches where the boys can hold 'em in the "X" ring, you will see Remington ammunition making groups like those shown to the left.

Remington match ammo gives finer accuracy because it is manufactured to the highest standards of performance. Every step in production is carefully watched. The bullet is made "just so"! The crimp must be perfect. And the ballistic control laboratory checks every lot of ammunition before it's shipped. It's the elimination of "variables" and careful attention to the smallest detail that assures you, "IF IT'S REMINGTON, IT'S RIGHT!"

MORE THAN 500,000 SPORTSMEN OWN REMINGTON AUTOLOADING SHOTGUNS

For fast shooting at fast-moving targets, no other shotguns excel the Remington 3-shot Sportsman and 5-shot Model 11 autoloaders. They shoot as fast as you can pull the trigger . . . allow extra shots before fast-moving game gets out of range . . . give lighter recoil.

Both guns are made in 12, 16 and 20 gauges with barrel lengths and borings to meet every requirement. It will pay you to wait until your local dealer can make delivery.

Palma, Kleanbore, Targetmaster, Sportsman, Hi-Speed and Wetproof are Reg. U. S. Pat. Off., Core-Lokt and Shur Shot are trade-marks of Remington Arms Company, Inc., Bridgeport 2, Conn.

DOPE BAG

Conducted by Major General J. S. Hatcher
Edwards Brown, Jr., A. H. Barr, J. L. Murphy, J. S. Rose

THIS MONTH:

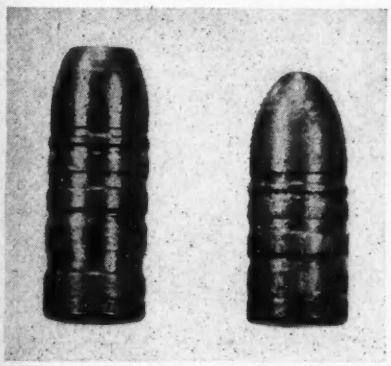
Bullet for .257 Roberts · Clearing Barrels with Water · Around-the-Corner Guns · Old Primers · Silencers vs. Muzzle Brakes FA .22 Cartridge · Combination Scopes .30-'06 Group Size · Enfield Bolt Safety Porro Prisms · Bullet Penetration in Water Weaver K4 Scope · Emergency Cleaning Rod Firearms and Taxes · .22 Donaldson Wasp Performance · Trade Dope

BULLET FOR .257 ROBERTS

"I have a Mauser Kar-98 action which was recently barreled for the .257 Roberts cartridge. I have been trying to work up an accurate load with a 100 grain Spitzer gas-check bullet. I've tried ten, twelve, and fourteen grains of du Pont No. 80 as well as fifteen, eighteen, and twenty grains of Hercules Lightning, but none of these loads are accurate and nearly all of them lead the barrel. Bullets are cast of one part tin to ten parts of lead.

"I find that Bond has a Loverin gas check bullet No. F-257 in 74 and 89 grain weights. Bond also has another bullet, without gas check, in 86 or 107 grains. What do you think of these bullets for obtaining good accuracy and flat shooting up to 125 yards?"—T. Cox, Richmond, Va.

Answer: I do not think you could get any better bullet than the Loverin-Bond F257730 weighing 89 grains, for your .257 Roberts. Guy Loverin developed that bullet and he had some excellent results with it, even up to 600 yards. I prefer a blunt-nose alloy bullet anytime to the long-pointed type for good accuracy. For a very light load in the .257 with this bullet you would use around 9 grains of No. 80. You can also get a double-cavity mold, one cavity of which could be cut for the No. 257616 weighing 74 grains. Loverin recommended up to 25 grains of 3031 or 19 to 21 grains of 4189 with this bullet. With the heavier bullet for long-range loads he even went up to 27 grains of No. 3031.



Left: The hollow-point version of the Loverin-Bond bullet F-257730. Right: The Loverin-Bond F-257616

One of the most accurate lead bullet loads I ever shot was the Bond 257616 in a .250 Savage using 16 grains of du Pont No. 4198. You would use a few grains more in the .257 Roberts for an accurate, moderate-velocity load. With du Pont No. 4759 and this same light, 74 grain bullet a charge of 15 grains gives 1920 feet per second and with the heavier bullet the same charge gives 1880 feet, which should be an accurate load. You could try a grain or two less for best accuracy.—A.H.B.

CLEARING BARRELS WITH WATER

"I have been reading about obstructions in guns. Here is a method I have used in getting stuck rags out of a rifle:

"Take the bullet out of a cartridge, also take all but about a quarter of the powder. Pack paper in the shell to fill it up. Open the breech of the rifle and fill it with water up to the chamber. Put the blank shell in and fire the rag out. The water will not compress at all, so it acts as a rod against the rag and does not cause any compression, as air will. If it does not come out the first time, leave the breech closed for half a minute so the water won't squirt out. This does the gun no harm, as the charge is light.

"This will also work on self-loading rifles. I have tried it with .401 and .351 Winchesters, both self-loading. I never tried it on a stuck bullet but would if I ever had one stuck in my gun, as I think it would do the trick."—L. V. Mead, Sierra Madre, Calif.

NOTE: Years ago when I had more time than I have now and was less cautious, I used to try everything I could think of in the way of gun experiments, but this is one I missed.

I did once take a .22 repeater to the old swimming hole, and engaged in underwater target practice, holding the gun below the surface while loading and firing at submerged objects several feet away. I sat on the bottom with a stone on my lap to hold me down and let me see what was going on. I felt that if the gun blew up, the water would slow up the pieces so they wouldn't hurt very much.

Nothing out of the way happened. I still have the gun and it shoots all right.

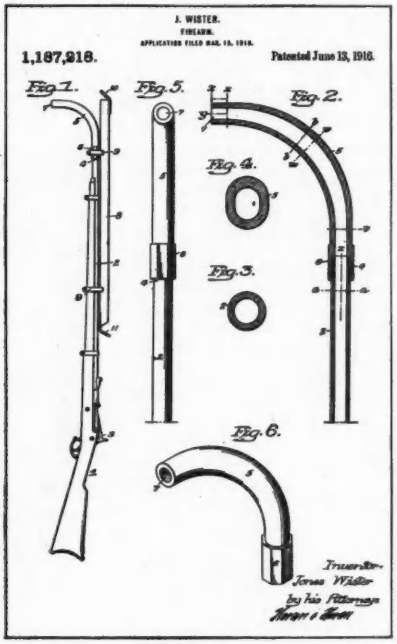
To anyone who wants to use the water-filled barrel method of removing obstructions, let me say that about 11½ inches of water in a .30 caliber barrel is equivalent in weight to a 200 grain bullet. Hence, if this method is tried, the charge should be very light to avoid high pressures.

I certainly wouldn't use this method for removing a stuck bullet, for in this case the weight of the water plus that of the bullet would make a very heavy mass to move; moreover, a stuck bullet is easily driven out with a square-ended rod of cold-rolled steel as nearly barrel diameter as possible.

This procedure for removing obstructions is passed on as a matter of interest only, and not as a method recommended by us, as we have not been able to give it a test. The chances are that it would work all right, but if anyone wants to use it, it is strictly at his own risk.—J. S. H.

AROUND THE CORNER GUNS

"Somewhere at home I have a *Popular Mechanics* of about 1916, showing a photo illustration of a German shoot-around-the-corner Army rifle. As I recall it, it was the long service-model Mauser with about 10 inches of the barrel bent to a 90° curve at the muzzle—to the left. It was for shooting over the top of a trench without exposing the shooter to enemy fire. I seem to remember a periscope device, more for showing the field of fire than for sighting. In any case, the idea isn't new."—Paul St.-Gaudens.



The Jones Wister "Around the Corner" patent

"In view of Phil Sharpe's interesting article in the July RIFLEMAN on the around-the-corner gun, the enclosed patent specification, issued in 1916 to one Jones Wister, should be of interest. It was discovered by W. B. Van Wagner, an ardent rifleman and employee of the Engineer Department.

"Can it be that the Krauts searched our patent records?"—Calvin Goddard.

OLD NO. 7 PRIMER

"I recently ran across some old UMC primers. Can you tell me if they are corrosive or mercuric? The label is red and reads *No. 7 Copper Primers—for Smokeless Powder Cartridges—Same size as UMC No. 2 Primers—The Union Metallic Cartridge Company, Bridgeport, Connecticut.*"—A. F. Lacy, Los Angeles, Calif.

Answer: These primers were probably manufactured about 1900. Primers of that time were all corrosive, as the noncorrosive type

was not put into general use in this country until about 18 years ago. There were some nonmercuric primers available in the early part of this century but the chances are that the ones you have are from a fulminate of mercury mix.

During the latter part of the nineteenth century smokeless powder came into the picture and it was necessary to produce primers which were potent enough to ignite it. Primers were usually adapted to smokeless powder use merely by incorporating more priming material and thereby making a "hotter" primer.

According to Phil Sharpe, in his *Complete Guide to Handloading*, the UMC No. 2, No. 2½, No. 7, and No. 7½ were interchangeable with Winchester No. 2, No. 2½ W, and No. 3.

Evidence that these primers were made previous to 1902 is found in the fact that the Union Metallic Cartridge Company merged with Remington in 1902 as the Remington U. M. C. Co. It is not recommended that these copper primers be used with modern loads.—E.B.

SILENCERS VS. MUZZLE BRAKES

"I have been a woodchuck hunter for a long time, and my favorite rifle has been, and still is, the .250. But there is one bad feature with all of these high-velocity rifles that the farmers are not too happy about. The sharp crack seems to be a very disturbing feature to 'contented cows' in their pastures.

"Have you tested a rifle with a Cutts compensator for the degree or percentage of noise reduction, with and without this device? I have also been wondering how one of those flash hiders used on the muzzle of most field pieces would work on a small-caliber field rifle to change that crack to more of a 'boom,' and so be easier on Bossy's ears.

"I know of some cases in which farmers will not allow hunters on their farms who use a high-velocity rifle because of this feature. They okay a .22 Hornet, or a .22 Long Rifle, but nothing that makes more noise—and that rules out my favorite .250."—John M. B. Beecher, Wynnewood, Pa.

Answer: Muzzle brakes and compensators do change the report of a rifle to a certain extent, but they are by no means effective as silencers. Perhaps this is just as well as they would otherwise run afoul of the National Firearms Act.

Actually, no silencer is effective on a rifle which gives its bullet a velocity greater than the speed of sound. At such velocities, the bullet itself generates an air wave which gives a sharp whiplike report every time the bullet passes an object.

Years ago the Government experimented with silencers on the Springfield rifle and I happened to have a couple of these rifles with me when I was in charge of the Ordnance Depot and Machine Gun School in Harlingen, Texas, in 1916. The silencers reduced the recoil of the rifle considerably and completely silenced the report of the rifle itself. This fact served to call attention to the crack of the bullet, which had formerly been masked by the report. A weird effect was produced by firing one of these rifles along a railroad track, past a row of telegraph poles. The air wave from the bullet produced a sharp report as each pole was passed and the succession of reports sounded very much like a burst from a machine gun. When this action became well understood, it was apparent that silencers could never be fully effective on a high-powered rifle and the issuance of silencers with Springfields was discontinued.

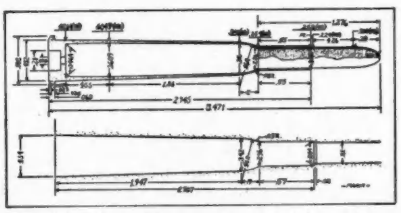
Ever since the introduction of the Springfield rifle, inventors have been bringing in muzzle brakes for tests, and as these devices all depend for their effectiveness on deflecting the muzzle gases sidewise or backwards, the result is that the shooter is subjected to more or less unpleasant intensification of the muzzle blast, which he may or may not prefer to the recoil. While the effects are not bad on the shooter himself, they can be seriously disagreeable to people on the right or left, and this has held back the use of these devices for military purposes. However, during World War II, muzzle brakes became quite popular on cannon and were used to a certain extent on small arms, notably on the Russian Tokarev.

We have listened to these recoil reducers from various locations with relation to the gun and our impression is that from the viewpoint of your friend, "Bossy," the noise might be modified to the extent of 15 to 25 percent, but no more.—J.S.H.

ONE FOR THE COLLECTOR

"The cartridge collector's life is not a happy one—no sooner does he think that his collection is reasonably complete than along comes some kill-joy with another hopelessly rare item. If you are a collector of rare cartridges, here is something to hunt for.

"On January 4, 1895, the Chief of Ordnance directed Frankfort Arsenal to prepare 250 rounds of ammunition and 50 extra bullets for



Frankfort Arsenal's experimental .22 cartridge

an experimental .22 caliber rifle being developed at Springfield Armory. The Armory had designed the cartridge with a neck wall-thickness of .011 inch, but, for manufacturing reasons, this was increased to .013 at Frankfort. The Armory had, of course, agreed to the change. By late August of 1895 the ammunition had been delivered. There were 250 unprimed cases in the lot as well as 300-odd bullets, of which 250 weighed 118 grains each, 26 weighed 112 grains, and 25 weighed 120 grains. They had cupronickeled steel jackets.

"Later, Peyton and W.-A. powders (smokeless) were furnished to the Armory for test. And no amount of searching has yet disclosed further information as to the ammunition, the rifle for which it was built, or its ultimate disposal! Whether the design was dropped because of the Spanish-American War, whether it was found to be faulty—there is no record available. However, computations of the trajectory, energy, and velocity of the projectile show that this was a most remarkable little cartridge, one which might, to advantage, be revived in these days of better powders and barrel steels."—Roger Marsh, Hudson, Ohio.

ONE ALWAYS OUT

"I am moaning about the accuracy of my Model 70, .30-'06 standard grade, on which I have mounted a Weaver 29S scope with post reticule. I have been using a 169 grain, gas-check bullet. In most five-shot groups at 100 yards, four will be in less than an inch but the "flyer" enlarges the group to 1 or 1½ inches. I am considering sorting the cartridge cases as to neck thickness, since enough minute-of-angle groups are shot to convince me that the loads are sound."—E. O. Foss, Nottingham, N. Y.

Answer: I do not think you have much to moan about when it comes to the 1- or 1½-inch groups at 100 yards with your .30-'06 and cast bullets. It seems to me you are doing about as well as anyone could expect. Of course, occasionally there is a freak in the way of a very small group, but you can't expect them regularly.

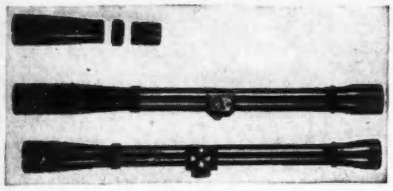
It would be a good idea to select your cartridge cases as to uniform neck thickness and uniform case length. This might eliminate some of those wider shots. That lead alloy wizard, H. Guy Loverin, has often suggested using a wad of steel wool to clean the inside of the case necks when using lead alloy bullets. You might try this.—A. H. B.

COMBINATION SCOPES

There is quite a demand these days for short, internally adjustable, medium-power hunting scopes. The European source of supply (mostly German) has been cut off, and until some American manufacturer starts production, the popular 6X hunting scope is not available. Some scope manufacturers have taken advantage of this situation and brought out an excellent compromise in the form of an enlarged objective attachment for existing American scopes of lower power. The light low-power hunting scope, when fitted with a 1-inch or larger objective lens, with a focal length of about 5 inches, is thus converted into a good 6X sight.

Fitting the attachment, after removing the original objective, is so simple in the case of scopes like the Lyman Alaskan and Weaver K2-5 that the attachment can be classed as "install-it-yourself." The single-unit objective cell of the K2.5 makes it one of the easiest for fitting the large objective. So simple is the change that it is quite practical to use these scopes with the 6X objective during the varmint hunting season and then change back to the low power for big-game hunting. The attachments are also available for such other scopes as the Weaver 29S, 330, and 440.

The Edwards 6X attachment for the 330 Weaver and the Litschert 6X for the Lyman Alaskan (illustrated) thread directly into the front end of the scope tube. The K2.5 Litschert uses a threaded adapter. With the Litschert job, parallax is removed and the scope focused by rotating the objective attachment in or out. Edwards uses the conventional objective focusing and locking ring common for



Top to bottom: The K2.5 Litschert objective; same objective mounted on K2.5, and Lyman Alaskan

most target scopes. With either type of attachment the objective lens is rotated. As the optical center is seldom in the exact center of the lens, any change for focusing will change the zero, except for a complete turn of the objective. A 6X scope though, with a setting for infinity (200 yards or more), will be practically free of parallax at the shorter ranges.

Optically these converted scopes, particularly with coated lenses, are equal to the target types in 6 power with objectives of corresponding size. There was little on which to base a choice between the three scopes we checked for weight, magnification, field of view, and resolving power.

The K2.5 with Litschert objective is full 6X, weighs 14 ounces, including rings for the Hill mount, and is 16 inches long. Field at 100 yards is 14 feet or a 26-foot loss of field when going to 6X. Resolution is very good, being ⅛ inch at 100 yards.

The Litschert-Alaskan is also full 6X, weighs 14 ounces without mounts, and is 15 inches long. Field is 14 feet. Resolution is a good ⅛ inch. Both the Alaskan and K2.5 which we used in our tests, had all lens surfaces coated.

The 330 Weaver with Edwards objective is full 5½X, weighs 14 ounces with Redfield, Jr. mount rings, and is 15 inches over-all length. Field at 100 yards is 13½ feet and resolution a good 3/16 inch. Only the objective of the 330 was coated.

Increasing the power with these attachments

Edwards attachment on the Weaver 330 scope

does not change the eye relief or the apparent size of the cross wires. The greatest change is the reduction in the field of view, which always accompanies an increase in magnification.—A.H.B.

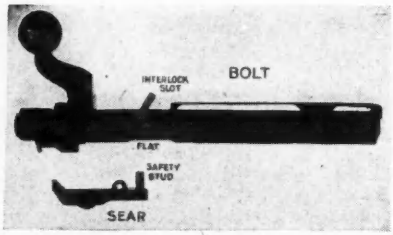
ENFIELD BOLT IS SAFE

"I have a very serious complaint. The firing pin on my M1917 Enfield, which I recently purchased through the D. C. M., will drop while the bolt is still unlocked. I consider this an unsafe condition."—E. A. Dudash, Anchorville, Mich.

Answer: If your Enfield will actually fire while the bolt is not closed, you do have a serious proposition on your hands. I doubt very much, though, if you have such a condition. It is true that the 1917 trigger can be pulled to release the firing pin while the bolt is open and on the origin of the caming surface. In this position, however, the firing pin does not come forward to strike the primer. Take an empty cartridge with a live primer in it, and load it into the chamber. Pull the trigger with the bolt lugs just on the caming surface and you will see what I mean. It shouldn't even have a dent in it.

Now try closing the bolt a little further and you will find that you cannot pull the trigger. Keep pressure on the trigger as you close the bolt (rifle not loaded!) and you will find that the trigger will not release until the bolt is closed.

Take the bolt out and you will see why it works in this manner. About one inch forward of the bolt handle, on the underside, is a flat. This permits the safety stud on the sear to rise as the sear nose is depressed by the cocking piece. As the bolt is turned in closing, the safety stud cannot rise because it impinges



These features of the M1917 Enfield bolt, described above, assure safety if rifle is in good condition

on the bolt sleeve if the trigger is pressed.

If you look further, you will find a slot cut in the bolt surface. This slot comes opposite the safety stud when the bolt is fully closed and permits the stud to rise when the trigger is pulled.—E.B.

PORRO PRISMS

"Truman Henson's article in the April issue of THE AMERICAN RIFLEMAN interested me very much, as I am engaged in a similar project myself. His article is very instructive. However, I wish to point out an error relative to the Porro prisms. Mr. Henson states that a beam of light travels a distance of 2.047 inches through a one inch prism. Theoretically this is correct, but the actual distance the beam of light travels is 70 per cent, or roughly one and three-eighths inches. Why this is I don't know, but I have read about it and also proved it to myself by actual experiment. In my proposed spotting scope I am using 1⅜-inch Porro prisms, and the actual reduction in length of the telescope by passing the light through the two Porro prisms is 3⅞ inches, whereas the theoretical distance is 5½ inches."—A. W. Park, Manitoba, Canada.

Answer: You are absolutely right about the light rays not traveling a distance determined geometrically, while passing through the prism. When the prisms are placed between the objective lens and the eyepiece, the rays will usually be diverging or converging, and when this is the case, the distance traveled is determined by dividing the base length of the prism by the index of refraction of the glass. This should make the answer come out in most cases as you have indicated, approximately 70 per cent of the base length of the prism.

Mr. Henson in his article gave approximation methods for placement of lenses and allowed ample length of adjustment to take care of any corrections necessary.—E. B.

THE WEAVER K4 SCOPE

We have been doing some shooting with a Weaver K4 on a Winchester 70. This scope gives a field of view of 26½ feet at 100 yards with a resolution of ¼ inch. Lenses are coated and the image is very bright. Magni-

The new Weaver K4 hunting scope

fication of the sample checked is between 3½ and 4x, with eye relief of 3¾ to 4 inches. Other dimensions are over-all length, 11¼ inches; weight with mounts, 10 ounces; tube diameter, 1 inch outside; objective diameter, 28 mm. (1.03 inches outside); and ocular diameter, 30 mm. (1.35 inches outside). Both optically and mechanically this scope appears to be of excellent design.

BULLET PENETRATION IN WATER

Not long ago we received an interesting question from "The Fact Finder," a fifteen-minute evening program of station WTOP in Washington. A listener wanted to know the penetration of .30-'06 ammunition when fired into water.

The NRA has never conducted tests of this, so we could only make rough estimates or guesses. However, upon checking with the Army and Navy Departments, we found that both had conducted rather extensive tests to determine the lethal penetration of .30-'06 and .50 caliber bullets into water.

The Army Ordnance Department determined that a 150 grain bullet fired into water from a .30-'06 rifle at 2,770 feet per second at an angle of incidence of 90 degrees would be slowed to 140 feet per second after traveling through 3½ feet of water. At 140 feet per second, this bullet has 100 foot-pounds of remaining energy, which is considered to be the minimum necessary to bruise the human body. The bullet loses sufficient velocity between 3½ and 4 feet to make the latter depth safe.

As a result of tests made at Dahlgren, Virginia, the Navy Department reached similar conclusions. At an angle of incidence of about 30 degress, the angle at which a plane would be more apt to attack a man in the water, about 2½ to 3 feet of water is ample for protection from .30-'06 bullets.

On all impacts, the bullets were yawed nearly 90 degrees, indicating that they tumble soon after they strike the water. The effective range in water is, therefore, not governed too much by the shape of the bullet. Variation of the striking angle of the bullet between 30 and 90 degrees actually did not affect the penetration as much as might be assumed.—J.L.M.

FIREARMS AND TAXES

"Could you give me the approximate date on which the 20 per cent tax will be removed from firearms. I wish to purchase a Remington 513-T for target shooting and would be willing to wait a while if it would result in a 20 per cent discount."—Albert Jones, New Bedford, Mass.

Answer: There is no 20 per cent Federal tax on firearms. However, there is the 11 per

(*Continued on page* 50)

NEW

ONE-STEP EXPOSURE METER!

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"Autocritic"

INSURES CORRECT EXPOSURE...

FASTER... SURER

FOR COLOR OR BLACK-AND-WHITE

Light values indicated directly on the calculator ring. No duplicate light intensity scales to match up — no chance for mistake. All you do is adjust the movable ring so film exposure index number meets the light value. *Time* and *f* scales are aligned for correct exposure *automatically!*

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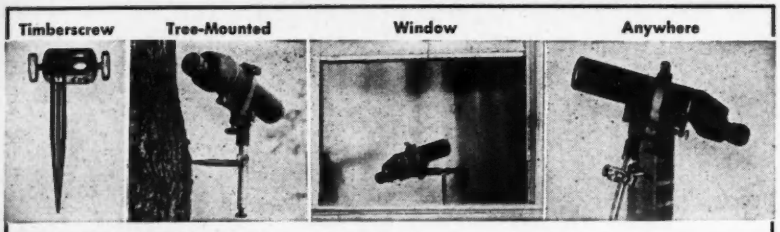

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Ramps NOW Available

$3.25 ea.

5/16" x ½" x 3". Std. Dove-tail slot permits use of sights of proper heights for any rifle.

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THE GUN SHOP, 620 E. Powell, Gresham, Oregon

cent excise tax on all firearms and ammunition sold in the United States. I doubt if it will ever be removed.

The use to which that revenue is placed should be of interest to every shooter. According to J. A. Krug, Secretary of the Interior, next year will see the division of $2,260,000 among 47 of the 48 states. The one state not eligible for a share in this money is Nevada. Unless Nevada conforms with the requirements, some of which are mentioned below, she will be refusing the $43,502 that has been earmarked for her wildlife in 1947. Under the terms of the Pittman-Robertson Act, the funds are apportioned to the states on the basis of land area and the number of hunting license holders in each state. The money must be used on wildlife restoration projects which are set up and maintained by the state game commissions.

In order to share in this fund, a state must contribute one dollar to the wildlife project, for every three dollars granted by the Federal Aid program. They must also maintain state laws which make certain that all of the hunting license revenue is spent in some form of wildlife conservation work. The purpose in that regulation is to prevent license money from winding up in highway improvements or other state projects not involving wildlife. —J. S. R.

.22 DONALDSON WASP PERFORMANCE

We have just had an opportunity to look over about 24 targets (10-shot groups) made with three different Wasp rifles, two on Model 70 actions and one on a Model 54 Winchester. Three groups were made at 200 yards. Center to center measurements were 1.25, 1.50, and 1.94 inches. The other groups were made at 100 yards. There were several 10-shot groups as small as 5/8 inch, and only three groups had one shot each, which enlarged the groups to one inch or more. For the benefit of those not familiar with this cartridge, the Donaldson Wasp is the .219 zipper case, which is 1.92 inches long, cut off to approximately 1.70 inches and reshaped to a more abrupt shoulder.

The loads were 31 to 32 grains No. 4320 and Winchester No. 115 primers. The 55 to 56.5 grain bullets were made in R.C.B.S. bullet swages. All shooting was done by Sam Clark, Jr., of Waterville, Maine. About 29 grains No. 3031 did not give as good accuracy.—A. H. B.

EMERGENCY CLEANING ROD

The Waltham Screw Company is selling a "Featherweight" emergency cleaning rod made of magnesium. The one we have weighs only 2½ ounces, and when disassembled with all five sections within the handle it is 6¾ inches long—a very neat and light package. The diameter of the "screw-in" sections is .186 inch and when assembled you have a 28½-inch cleaning rod which is suitable as an emergency rod for most rifles.

The diameter of the handle is .616 inch, which permits its use as an emergency rod for 12 and 16 gauge shotguns when pushed through handle first. With the added length of the handle it makes a shotgun rod long enough to go through any shotgun.

GUNSMITH TRADE DOPE

E. G. Bender of the E & J Gun Shop at Rapid City, South Dakota, advises us that Joe O. Rhode, who has been employed the past eighteen years by the Browning Arms Company of St. Louis, Mo., is now working with Bender and John Zasadil. Bender tells us that they have a very complete gunsmithing shop in the "heart of the Black Hills" country and can give satisfactory service on any job. Mail orders are gladly received and taken care of promptly.

J. W. McPhillips, Custom Reloading Service, 285 Mastich Ave., San Bruno, Calif., writes that he can furnish 8 x 60 mm. ammunition for souvenir rifles chambered for that cartridge.

Hawkeye Shooters Supply Company, 1606 Third Street, S. W., Cedar Rapids, Iowa, is the firm formerly known as the Stolba Gun Repair Service.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising and might result in disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an open market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All advertisements must be accompanied by remittance. The rate is 15 cents per word including name and address—minimum charge $2.00.

5. Definite Prices Must Be Stated: A specific price must be stated on all items offered in FOR SALE and SELL or TRADE ads—except that the phrase "write for catalog" may be used when listing merchandise in quantities.

6. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraph replies.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade, *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid," as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

9. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These include machine or submachine guns; sawed-off rifles and shotguns with barrels of less than 18" and Mauser and Luger auto pistols *with holster stocks.*

10. Requesting Privilege of Examination: We *insist* that purchasers desirous of examining merchandise before acceptance request shipment by express C. O. D. with examination privilege. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). (Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel; HP., meaning highpower). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

12. Responsibility for Illegible Copy: Type or print advertisements plainly, as we can not be responsible for errors due to illegible writing.

13. Closing date: All advertisements must be received by not later than the 1st of the month preceding date of issue. (Example: the 1st of October for the November issue. Ads *received* after the 1st of October, *and not later than the 1st of November* will be inserted in the December issue.)

FOR SALE

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DO YOU KNOW OF ANY PURCHASEABLE antique firearms collections? Generous REWARD for productive information. James Serven, Santa Ana, Calif. tf

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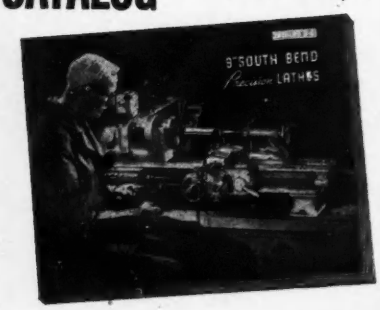

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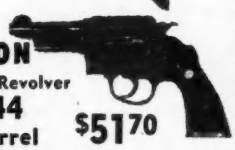

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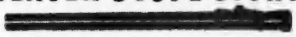

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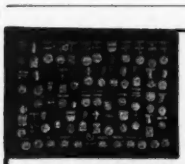

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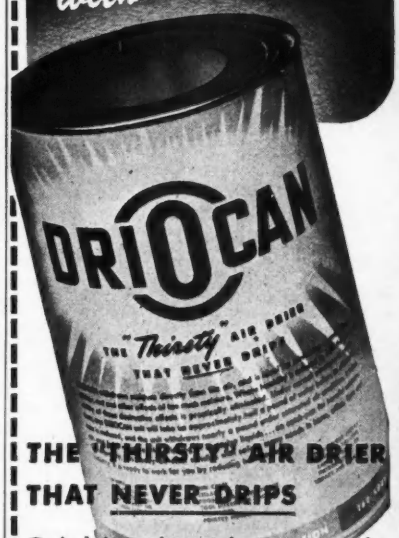

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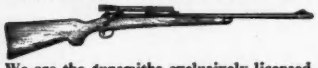

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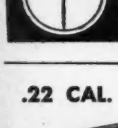

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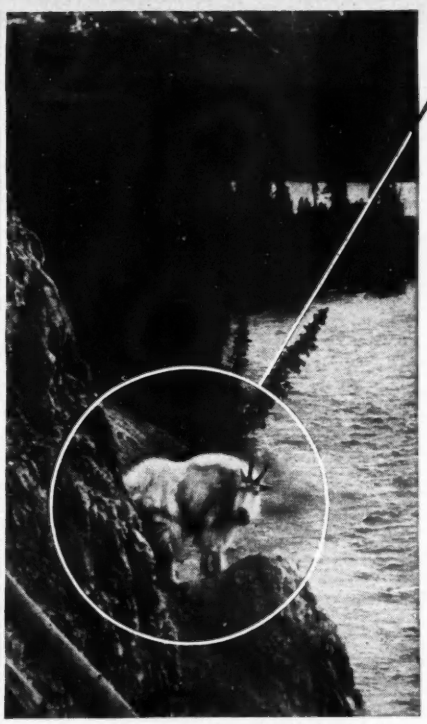

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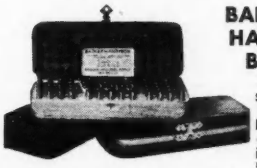

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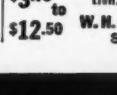

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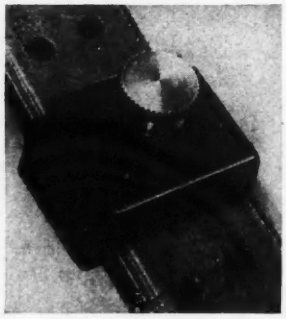

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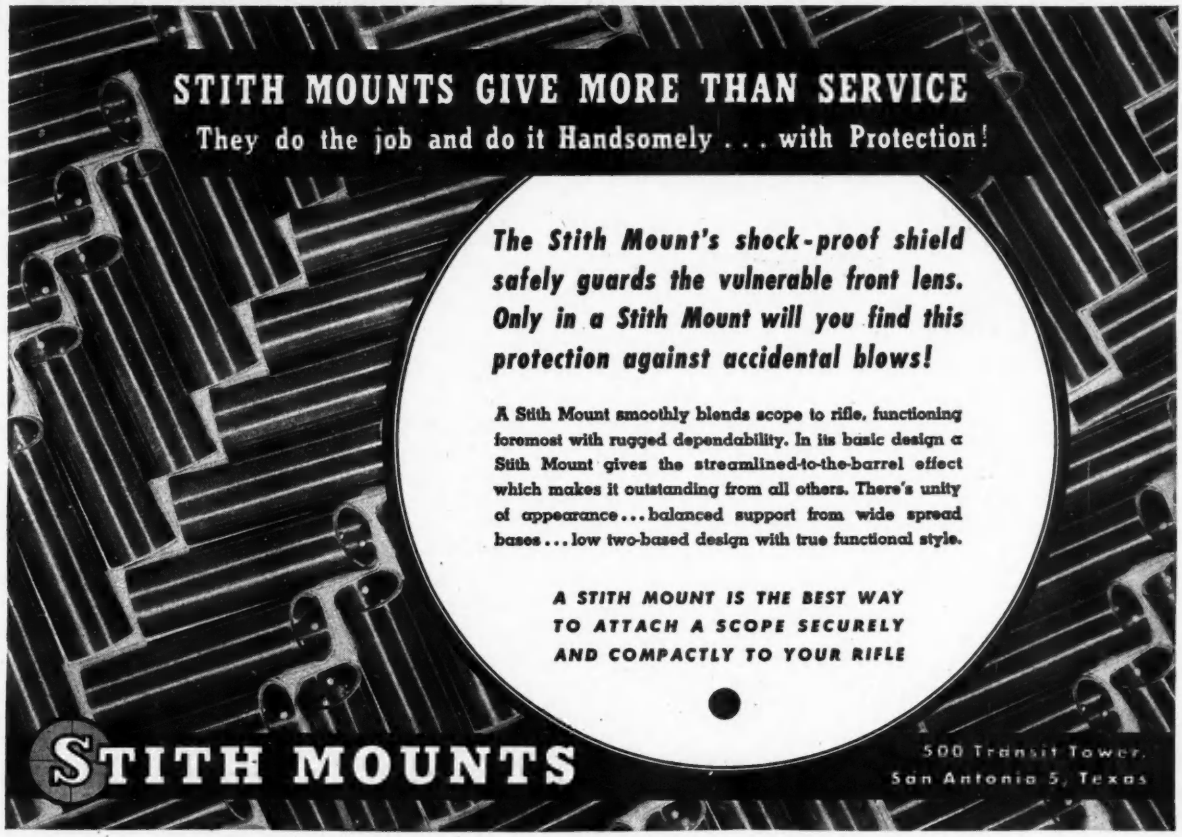
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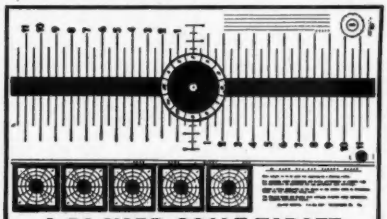

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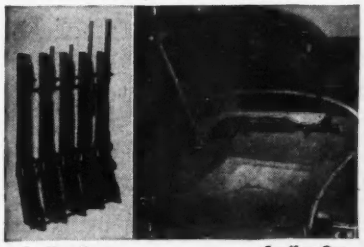

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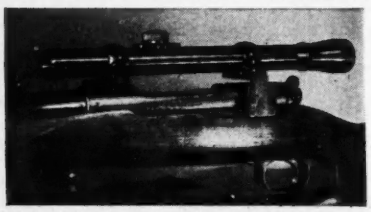

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DCM SPORTER #1,406,678 48RS, PERFECT IN, excellent out, $85.00. Springfield 1903 as issued, vg, $45.00; Springfield 1903 Star gauged 48 RS, excellent in, good out, $50.00. Krag 22" bbl, no sights, excellent in, good out, $25.00; Shooting Masters .45 and .38 cal., excellent each $60.00; Colts 1917 Rev. .45 cal. bore excellent, outside good $40.00; Colt service .45 cal. Auto as issued, vg, $45.00; S & W 22LR.DA target pistol, 10" bbl, vg, $25.00; money order, ship F.O.B. Henry Church, Life Member, 588 So. Guenther Avenue, New Braunfels, Texas.

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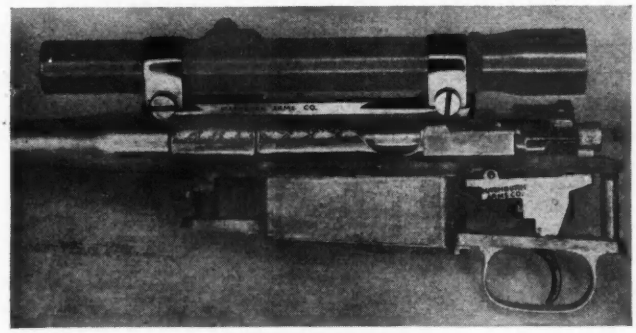

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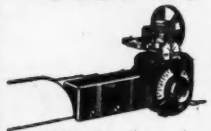

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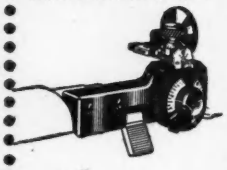

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30-'06 SWISS HAEMMERLI MARTINI, DS TRIGgers, adj. palm rest, adj. butt plate, cheek piece, Niedner Med. heavy bbl. fired very little, accurate, vg, $150. Zeiss Super Ikonta "B," 2¼x2¼, f2.8 Tessar, case, shade, portrait lens, Zeiss Contameter (close-up lens and rangefinder set), excellent $200; Rem. Hepburn action, good $12.50. A. L. Seabury, 8525 15th Street, N. W., Seattle 7, Washington.

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WINCHESTER HI-SIDE WALL, 32-40 DBL. SET triggers, both brickhorn and fine rear tang peep sight. 30" bbl, 1/3 hex 2/3 round. ⅞" diameter, scope blocks. This gun is in original condition, case hardened, action, perfect in and out $72.50. No C.O.D. Satisfaction guaranteed. O. N. Gregg, 4241 Troost, Kansas City, Missouri.

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LEFEVER 16 DBL., GOOD, DENT, RESTOCKED, $40.00. Krag S.S. 32-20, heavy relined barrel, fair, no sights, $26.50; cartridges, (66) 32 Ideal, $3.50; (41) 25-20SS, $2.25; (13) 40-70 Winchester, $1.50; (63) 303 Savage 311, $6.50; 30-06 Loading die, homemade, $2.50; Bond 3111000-1265, handles, $8.50; Pope type molds, base diameters, .325, 194 gr.; .326, 206 gr., .335, 205 gr., 336, 211 gr., .342, 218 gr., 348, 224 gr., $5.00 each, $25.00 the lot. J. F. L. Childs, Winter Park, Florida.

S&W .22/32 V.G. $50. WALTHER AUTOSHOT-gun vg 12-2½" chamber (Mar. '45 Rifleman, P.20) $125.00. Walther PPK .32 Auto, Ex. $50. German Pin-fire 16 ga., good, $30. Colt 12 ga. Hammerless. Damascus, Ex. $59.50, collectors item. Spotting scopes: B & L draw, vg, $32.50. Mossberg, good, $20. Prismatic 20X, coated, Ex., $59.50. Freeland stand, new, $8.50. Wanted: Large rifle, pistol primers. Rare arms literature. Edmund Fickert, Toms River, N. J.

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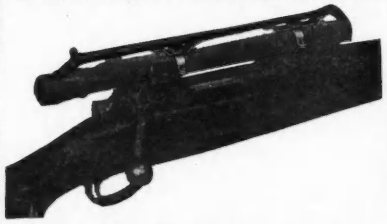

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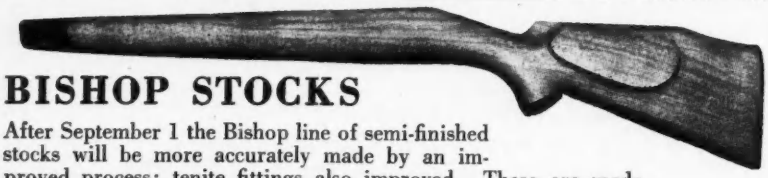

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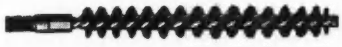

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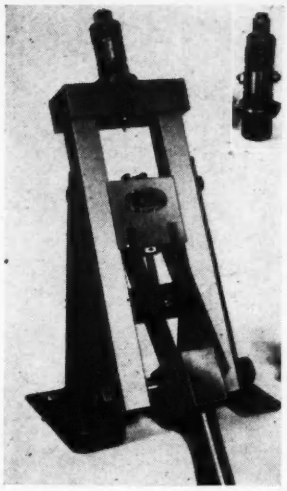

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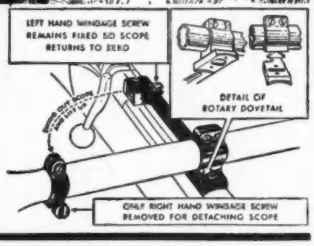
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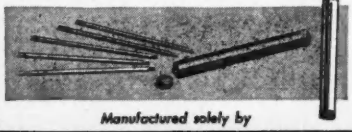

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SHOTGUNS—BARGAINS MONTHLY. SAMPLE copy free. Shotgun News, Columbus, Nebraska. 12-46

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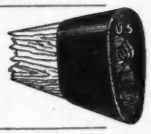
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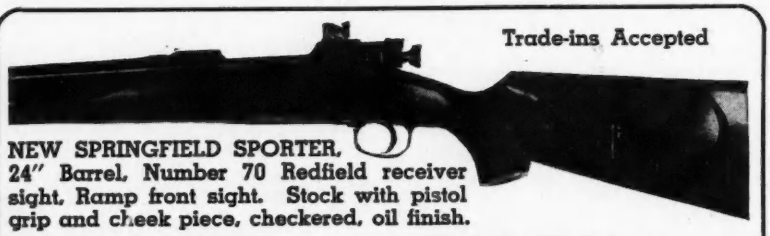

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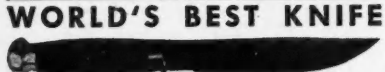

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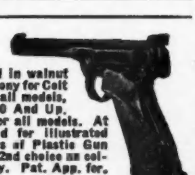

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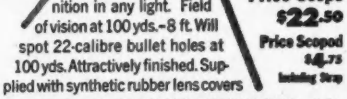

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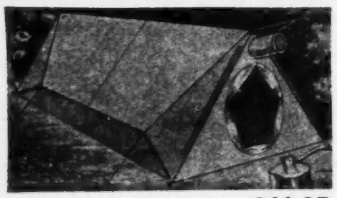

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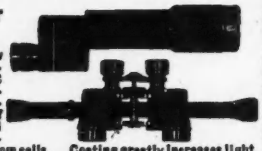

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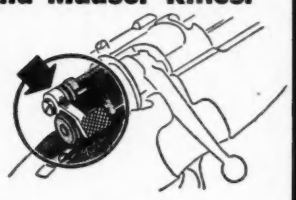

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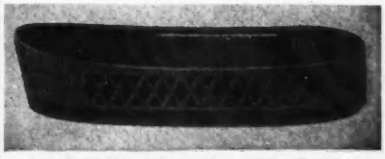

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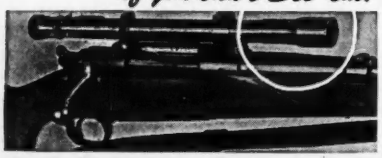

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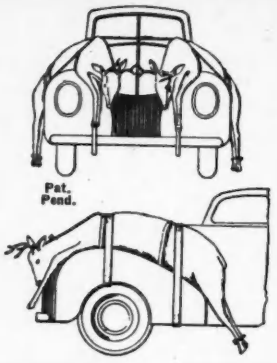

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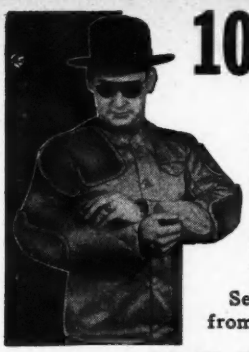

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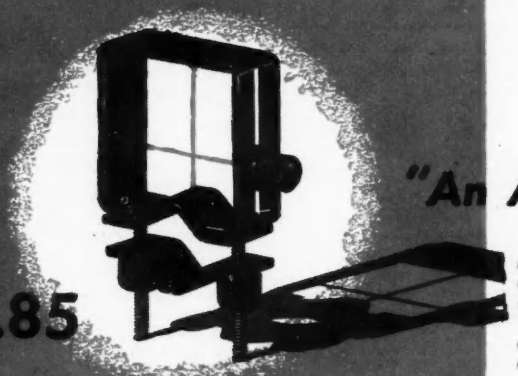

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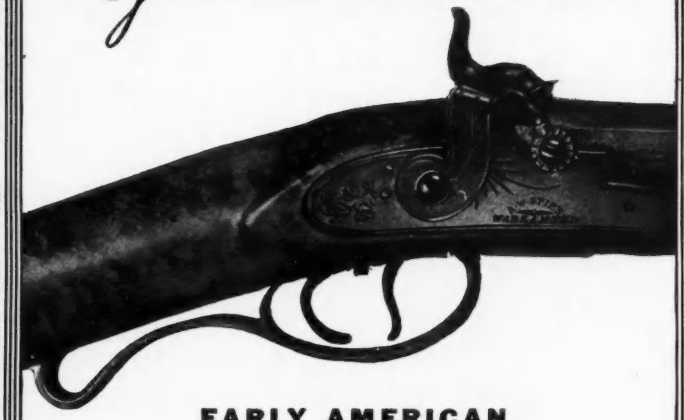

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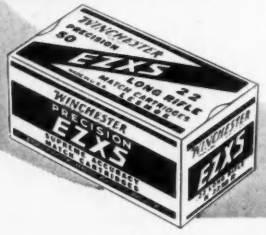

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